Former National Guard Armory Idabel, Oklahoma

Remediation Final Report



Prepared by:
Department of Environmental Quality
707 North Robinson
Oklahoma City, Oklahoma 73101



The Oklahoma Department of Environmental Quality (DEQ) is pleased to present the City of Idabel with the Final Remediation Report for the former Idabel Armory.



DEED NOTICE

A Notice of Remediation has been filed in the county courthouse and is included in this report. It summarizes remediation performed at the former Idabel Armory and describes continuing operation and maintenance and land use restrictions. This completes the DEQ cleanup of the property. For more detail on the activities described below, see enclosed reports.

ASBESTOS REMEDIATION

DEQ and its contractors completed the following activities:

- Asbestos inspection:
 - No asbestos was present

TARGETED BROWNFIELD ASSESSMENT

In January 2012, DEQ provided a Phase I Targeted Brownfield Assessment to the City of Idabel. A copy of this report is available at http://www.deq.state. ok.us/lpdnew/scapIndex.htm.

LEAD REMEDIATION

DEQ and its contractors completed the following activities:

- Lead-based paint (LBP) inspection
- Lead dust wipe sampling
- · Indoor firing range cleanup, including:
 - Lead dust cleanup: high efficiency particulate air (HEPA) vacuuming, wet washing and sealing with appropriate sealant floors, walls, and ceiling
- HEPA vacuuming and wet washing of floors in the building
- Proper disposal of associated waste



Additional copies of this report can be found at http://www.deq.state.ok.us/lpdnew/scaplndex.htm and DEQ Central Records at 707 N Robinson Oklahoma City, Oklahoma 73101.



This publication is issued by the Oklahoma Department of Environmental Quality authorized by Steven A. Thompson, Executive Director. Copies have been prepared at a cost of \$0.053 each. Copies have been deposited with the Publications Clearinghouse of the Oklahoma Department of Libraries. 1/2012 cmullins\LPD\Armories_SCAP\Armory\Reports\table||_2012.

1	Deeds and Legal Documents
2	Maintenance Plan
3	Inspection Reports
4	Scope of Work
5	Final Abatement Reports
6	Confirmation Sampling

DEEDS AND LEGAL DOCUMENTS

OUITCLAIM DEED



KNOW ALL MEN BY THESE PRESENTS:

That the State of Oklahoma, acting by and through the Oklahoma Military Department by its Adjutant General, Major General Myles L. Deering, a body corporate and politic and instrumentality of the State of Oklahoma, Grantor, in consideration of the sum of One and No/100 dollars and other valuable consideration in hand paid, the receipt and sufficiency of which are hereby acknowledged, do hereby quitclaim, grant, bargain, sell and convey unto City of Idabel, Oklahoma, Grantee, the following described real property and premises lying and situated in the McCurtain County, State of Oklahoma, as follows:

Begin 1664.68 feet East and 1285 feet South of the NW corner of NE1/4 Section 36, Township 7 South, Range 23 East of IBM; thence South 695.0 feet; thence West 505.69 feet; thence North 730.0 feet; thence South 85° East 506.9 feet to the point of beginning, containing 8.27 acres, more or less.

together with the improvements thereon and appurtenances thereunto belonging.

NOTICE: THE ABOVE DESCRIBED PROPERTY MAY HAVE BEEN CONTAMINATED WITH LEAD, ASBESTOS AND OTHER CONTAMINANTS.

TO HAVE AND TO HOLD unto the Grantee, its successors, and assigns for so long as said real property is used for a public purpose as required for this transfer in accordance with title 44, section 233.3(B) of the Oklahoma Statutes.

Signed and delivered this 4 day of Museum 2019.

County of McCurtain ISS
This instrument was filed for record

JAN 0 - 2011

at 12:35 o'clock (2) M. and duly certified on above dots and hour KAREN S. COMANYAY, County Clark
Katha 16 26 a la

STATE OF OKLAHOMA

Major General Myles L. Deering,
Adjutant General of the State of Oklahoma

45

1-2001-513319 Book 0838 Pg 46 01/07/2011 12:32 pm Pg 0045-0046 Fee: \$ 15:00 Doc: \$ 0.00 Karen Conaway - McCurtein County Clerk State of Oklahoma

ACKNOWLEDGMENT

STATE OF OKLAHOMA)	
) ss	
COUNTY OF OKLAHOMA)	
this I day of January	in and for this state, on , 2019, personally appeared Major General Myles L.
Deering as Adjutant General of the	State of Oklahoma, to me known to be the identical
	I foregoing Quitclaim Deed, and acknowledged to me
	and voluntary act and deed for the uses and purposes
	nic voluntary act and deed for the uses and purposes
therein set forth.	ho
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	Notary Public
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My Commission Expires:	
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My Commission Number:	
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I-2001-520363 Book 0857 Pg: 517 02/16/2012 10:10 am Pg 0517-0520 \$ 19.00 Doc: \$ 0.00 Karen Conaway - McCurtain County Clerk
State of Oklahoma

NOTICE OF REMEDIATION AND EASEMENT FORMER IDABEL ARMORY IDABEL, OKLAHOMA

LAMPEROTECHIONONISICA

LEGAL BASIS FOR NOTICE: The Oklahoma Department of Environmental Quality (DEQ) hereby files this Notice of Remediation pursuant to Oklahoma St. Notice does not grant any right to any person not already allowed by law and shall not be construed to authorize or encourage any person or other legal entity to cause or increase pollution, to avoid compliance with state or federal laws and regulations regarding pollution or to escape responsibility for maintaining environmentally sound operations.

The DEQ may take administrative or civil action to recover costs or to compel compliance with the Land Use Restrictions and to prevent damage to or interference with the Engineering Controls and Continuing Operation, Maintenance of said Engineering Controls herein described.

The Land Use Restrictions, Engineering Controls and Continuing Operation, Maintenance of said Engineering Controls shall apply to the Affected Property and to persons who own and/or use the Affected Property until such time as the DEQ files a subsequent Notice of Remediation that changes or removes one or more of them. Activities that cause or could cause damage to the Remedy or the Engineering Controls or recontamination of soil or groundwater are prohibited.

The owner of the Affected Property has the legal authority to create, and does hereby voluntarily create, an easement granted to the DEQ and its employees and agents, for ingress and egress through, across and onto the parking and other outside areas of the Affected Property as they exist from time to time to assure the ongoing protection of the Remedy, Engineering Controls and Land Use Restrictions. This easement touches and concerns the land and runs with the land, is legally binding on all current and future owners and tenants of the Affected Property, and shall only be removed or modified if and when the DEQ modifies or removes the Land Use Restrictions, Engineering Controls and Continuing Operation, Maintenance of said Engineering Controls.

REASON FOR NOTICE: The below described Affected Property was contaminated with materials that required remediation pursuant to State and Federal environmental laws and regulations. Sampling performed by DEQ contractors, conducted on March 5, 2011, indicated that there was asbestos, lead-based paint, and lead dust in the building.

AFFECTED PROPERTY: The Affected Property is the former Idabel Armory located at 2001 Industrial Parkway, Idabel, McCurtain County, Oklahoma.

The legal description is as follows:

In McCurtain County, Oklahoma, begin 1664.68 feet East and 1285 feet South of NW corner of NE1/4 Section 36, Township 7 South, Range 23 East of IBM; thence South 695.0 feet; thence West 505.69 feet; thence North 730.0 feet; thence South 85° East 506.9 feet to the point of beginning, containing 8.27 acres, more or less.

REMEDY: Remediation activities (Remedy) at the Affected Property included:

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The remedy included abatement of asbestos, lead-based paint and dust. The remedy was completed on December 7, 2011.

For more detailed information please refer to Former National Guard Armory Idabel, Oklahoma Remediation Final Report. To obtain a copy of the report, contact:

Oklahoma Department of Environmental Quality Central Records

Mailing Address
P.O. Box 1677
Oklahoma City, Oklahoma 73101

Physical Address 707 N Robinson Oklahoma City, OK 73102

Electronic Address
http://www.deq.state.ok.us/lpdnew/scapIndex.htm

DISCLAIMER

- (A) Lead: DEQ did not test every painted surface inside and outside of the building, therefore there is a potential for lead-based paint at the affected property.
- (B) Asbestos: DEQ did not test all building materials inside and outside of the building, therefore there is a potential for asbestos at the affected property.

CONTINUING OPERATION, MAINTENANCE AND MONITORING

- (A) Lead-based paint encapsulant: Lead-based paint encapsulant was applied over lead-based paint on non-friction surfaces. These areas should be periodically inspected and maintained as appropriate.
- (B) Sealant: Following cleanup, sealant was applied to the IFR and room floors where lead-based paint abatement was performed. Sealant should be inspected on a periodic basis and maintained as appropriate.

LAND USE RESTRICTIONS: The land use restrictions at the above-described Affected Property are:

- a. No residential use of the property by children age 6 or under. Residential use is defined as having a child present at the Affected Property for more than sixteen (16) hours within one twenty four (24) hour period.
- b. The IFR should not be used as a child occupied facility. Child-occupied facilities include, but are not limited to, day-care centers, preschools, and kindergarten classrooms where a child 6 or under spends at least 6 hours per week.

These land use restrictions apply to the entirety of the Affected Property described herein above.

CHANGING LAND USE RESTRICTIONS: Changes to land use restrictions must be approved by the DEQ or its successor agency. The person requesting the change in land use

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must demonstrate to the DEQ's satisfaction that contamination at the site has reached levels appropriate for the proposed new land uses and that further remediation is not necessary or that additional institutional or engineering controls are adequate to achieve levels protective of human health and the environment for the proposed uses.

The DEQ may require oversight costs, work plans, sampling, reports, and public participation as part of its review of the new information to support the requested change in land use restrictions. The person requesting the change will be required to follow agency procedures effective at the time of the request.

The DEQ at its discretion may determine, based on the new information submitted, that contaminants are present at the Site at levels that will not pose a risk to human health or the environment if the new land use restrictions being requested are allowed. Upon making this determination, the DEQ will file a recordable notice of remediation pursuant to state law in the land records in the in the office of the county clerk where the Site is located designating the new land use restrictions.

This Notice of Remediation and the restrictions and requirements contained herein run with the land and no change of ownership of the Affected Property will change the Land Use Restrictions.

Steven A. Thompson, Executive Director

Oklahoma Department of Environmental Quality

2-13-12 Data

Date

ACKNOWLEDGMENT

STATE OF OKLAHOMA COUNTY OF OKLAHOMA

Before me, a Notary Public, in and for said County and State, on this /3 day of February, 20/2, personally appeared Steven A. Thompson to me known to be the identical person who executed the within and foregoing instrument and acknowledged to me that executed the same as free and voluntary act and deed for the uses and purposed therein set forth.

In Testimony Whereof, I have hereunto set my hand and official seal the day and year above written.

My Commission expires:

2/12,20/3

Notary Public

Page 3 of 4

MOTAR, EXPERIENCE OF OKLANDING

I-2001-520363 Book 0857 Pg: 520 02/16/2012 10:10 am Pg 0517-0520 Fee: \$ 19.00 Doc: \$ 0.00 Karen Conaway - McCurtain County Clerk State of Oklahoma

IDABEL ARMORY EASEMENT

I hereby certify that I have the legal right to, and do hereby, create an easement and encumber the real property as described in the foregoing Notice of Remediation. I hereby voluntarily grant an easement to the DEQ and its employees and agents, for ingress and egress through, across and onto the Affected Property to assure the ongoing placement, operation and protection of the remedy, engineering controls and land use restrictions described herein above.

City of Idahel	Jina Joshue - Thomas mayor	1-30-12
Landowner	mayor	Date
•	U	

ACKNOWLEDGMENT

STATE OF OKLAHOMA COUNTY OF MCCURTAIN

Before me, a Notary Public, in and for said County and State, on this 30 day of the day of the county and State, on this 30 day of the county and State, on this 30 day of the county and State, on this 30 day of the county and state, on the county and state, on

In Testimony Whereof, I have hereunto set my hand and official seal the day and year above written.

My Commission	expires:	
9-23	, 20 <u>14</u> .	Sharon Martin
		Notary Public
	9/23/14	Book of 857 Page 517 State of Oklahoma CERTIFIED COPY County of McCurtain(988 This instrument was filed for record FEB 16 2012 at 10:120'clock A M. And duly certified on above date and hour KAREN S. CONAWAY, County Clerk by Karling Deputy

MEMORANDUM OF AGREEMENT BETWEEN THE OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY AND CITY OF IDABEL

- 1. PURPOSE: The purpose of this Memorandum of Agreement (MOA) is to establish a mutual framework governing the respective organizational relationships, responsibilities, and activities between the Oklahoma Department of Environmental Quality (DEQ) and the City of Idabel. This agreement is primarily for occupancy and access to the local armory building before and during limited remediation. The areas of responsibility and relationships presented herein provide the concept under which the program will be executed.
- 2. BACKGROUND: The Oklahoma Military Department (OMD) transferred title to its armory building at 2001 Industrial Pkwy, Idabel, Oklahoma to City of Idabel for public purpose use. There is a strong likelihood that the building contains asbestos and/or lead based paint. If an indoor firing range is located in the building, high concentrations of lead will be present. The DEQ plans to confirm the presence of hazards using sampling and analysis and to abate the asbestos, abate the lead based paint, and remediate the firing range.
- 3. RESPONSIBILITIES OF THE PARTIES: The following paragraphs identify responsibilities of the parties under this MOA:

The City's Responsibilities:

- Provide keys and access to DEQ and its contractors as needed to evaluate and remediate building;
- Restrict occupant's use/presence in the building before and during remediation, as requested.
 This could include removing equipment, vehicles and other items that may be in the way of cleanup activities; and
- Coordinate with DEQ during the remediation process.

The DEQ's Responsibilities:

Provide regular progress reports to the City;

- Mitigate hazards to remedial goals with minimal use restrictions;
- Supply the City with a final report of all DEQ activities;
- File mandatory Notice of Remediation, i.e. deed notice;
- Notify the City of ongoing operations and maintenance issues, if any; and
- Perform armory transfer ceremony, if appropriate.

4. BUILDING USE RESTRICTIONS BEFORE CLEANUP

- No access to or use of the indoor firing range, if one is located there;
- No residential use;
- No use as a child occupied or elder care facility; and
- No use of the property without DEQ approval.
- 5. RESPONSIBILITY FOR COSTS: The DEQ is responsible for costs associated with site characterization and remediation of lead and asbestos in the armory building. The DEQ is not responsible for costs associated with insuring, maintenance and mowing of the property. The DEQ is not responsible for structural issues, replacement of roofing systems, mold issues, or building security.
- 6. PUBLIC INFORMATION: The City is generally responsible for all public information. However, the DEQ may make public announcements and respond to all inquiries relating to the characterization and remediation of the building. The City and the DEQ shall make their best efforts to give the other party advance notice before making any public statement regarding work contemplated, undertaken, or completed pursuant to this MOA. DEQ will prepare a press release in advance of the armory ceremony, if one is held.
- 7. COMMUNICATIONS AND COORDINATION REPRESENTATIVES: To provide consistent and effective communication between the DEQ and the City, each party shall appoint a principal representative to serve as its central point of contact on matters relating to this MOA.

For the DEQ:

Dustin Davidson
Project Manager
Box 1677, OkC, OK 73101-1677
405-702-5100
dustin.davidson@deq.ok.gov

For the City:

Jerry Shinn

Mayor

201 E Main St, Idabel OK 74745

580-286-7608

ishinn@idabel.net

8. MISCELLANEOUS: This MOA shall not affect any pre-existing or independent relationships or obligations between the parties.

9. EFFECTIVE DATE: This Agreement becomes effective upon the date of the signature of the Executive Director of the DEQ and will remain in effect until the armory building has been remediated and released for occupancy by the DEQ.

10. ACCEPTANCE OF AGREEMENT: The parties acknowledge and agree that they have read the Agreement and that they accept the responsibilities with which they are charged. The City agrees to comply with the building use restrictions before cleanup and understands that failure to comply with said restrictions or failure to adhere to the responsibilities enumerated in this Agreement may result in delayed remediation.

Jerry Shing

City of Idabel

12-22-10

DATE

Steven A. Thompson

Executive Director

Department of Environmental Quality

DATE

MAINTENANCE PLAN

MAINTENANCE PLAN FORMER IDABEL ARMORY IDABEL, OKLAHOMA

The Armory located at 2001 Industrial Parkway, Idabel, Oklahoma, was contaminated with materials that required remediation pursuant to State and Federal environmental laws and regulations. Please refer to Attachment 1 for land use restrictions. Sampling performed by DEQ contractors, conducted on March 5, 2011, indicated that there was asbestos, lead-based paint, and lead dust in the building. Remediation activities at the Affected Property included abatement of asbestos, lead-based paint, and lead dust. The remedy was completed on December 7, 2011. The following maintenance plan is to be completed by the owner of the Affected Property. DEQ recommends inspection of remediated areas every 5 years. During site inspections the owner should note any signs of disrepair or improper maintenance. Continuing operation, maintenance and monitoring should include:

• Firing Range – The walls and ceiling of the indoor firing range was cleaned and sealed with DEQ approved lead-based paint encapsulant. In addition, the floors were cleaned and sealed with acrylic sealant to remediate surfaces below 40µg/SF for lead. These surfaces need to be resealed if encapsulant or sealant shows signs of deterioration, damage, or flaking.

Note -A list of DEQ approved acrylic sealant and elastomeric encapsulants is attached (Attachment 3). DEQ did not test every painted surface and all building materials inside and outside of the building, therefore there is a potential for lead-based paint and asbestos at the affected property.

If you have any questions or concerns feel free to contact me at (405) 702-5112.

Sincerely,

Rebecca Marfurt

Environmental Programs Specialist

DEQ Land Protection Division

Site Cleanup Assistance Program

ATTACHMENT 1

Land use Restrictions

LAND USE RESTRICTIONS: The land use restrictions at the above-described Affected Property are:

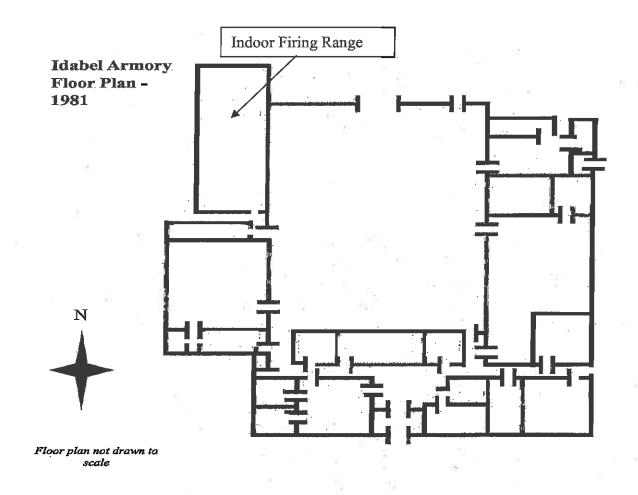
- a. No residential use of the property by children age 6 or under. Residential use is defined as having a child present at the Affected Property for more than sixteen (16) hours within one twenty four (24) hour period.
- b. The indoor firing range should not be used as a child occupied facility. Child occupied facilities include, but are not limited to, day-care centers, preschools, and kindergarten classrooms where a child under 6 spends at least 6 hours per week.

These land use restrictions apply to the entirety of the Affected Property described herein above.

ATTACHMENT 2

Floor Plan Map

Labeled areas represent walls and floors with encapsulant and/or sealant.



ATTACHMENT 3

DEQ Approved Sealants and Encapsulants List

Acrylic Sealant approved by DEQ

KM-669 Acrylic

Lead-Based Paint Encapsulants approved by DEQ

Encapsulant Manufacturer Product(s)	Encapsulant
Coronado Paint Company	LEAD BLOCK TM
Dumond Chemicals	LEAD STOP TM
Dynacraft Industries, Inc.	Back to Nature Protect-A-Coat
Encap Systems Corporation	EncapSeal TM I
Encap Systems Corporation	EncapSeal TM II
Fiberlock Technologies, Inc.	Child GUARD interior/exterior
Fiberlock Technologies, Inc.	L-B-C® Type III
Global Encasement, Inc.	LeadLock TM
Grace Construction Products	Lead Seal®
Grace Construction Products	Barrier Coat® II
Insl-x Products Corporation	INSL-CAP TM
SAFE Encasement Systems	SE-120 Protective Skin
Specification Chemicals, Inc.	NU-WAL® #2500 Coating

INSPECTION REPORTS

LEAD-BASED PAINT INSPECTION REPORT

IDABEL ARMORY

DCS Contract Number: ID11070-5



MAR 31 2011

VANDPROTECTION DIVISION DEPARTMENT OF ENVIRONMENTAL QUALITY



Lead-Based Paint Inspection & Settled-Dust Sampling

Prepared For:

Oklahoma Department of Environmental Quality
Land Protection Division
707 North Robinson
Oklahoma City, Oklahoma 73102

Prepared By:

Marshall Environmental Management, Inc. 1601 Southwest 89th Street, Suite A-100 Oklahoma City, Oklahoma 73159

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CERTIFICATION

This is to certify that, Marshall Environmental Management, Inc. was contracted by the State of Oklahoma, Department of Central Services to conduct a Lead-Based Paint Inspection in addition to collecting samples of settled dust within the Idabel Armory located at 2001 Industrial parkway in Idabel, Oklahoma for the State of Oklahoma Department of Environmental Quality, Land Protection Division. All services performed on March 5, 2011 were conducted by a Certified, Oklahoma Department of Environmental Quality, Lead-Based Paint Inspector/Risk Assessor, Jamie Marshall and Jacob Jones, representative of Marshall Environmental Management, Inc., under the direction of Dr. Charles L. Marshall Certified Industrial Hygienist and President of Marshall Environmental Management, Inc. The analytical results associated with this Lead-Based Paint Inspection and settled dust sampling are believed to accurately, reflect the concentrations of lead in paint and settled dust that were present at the time this Inspection was accomplished.

OWNER INFORMATION

City of Idabel

CERTIFIED LEAD-BASED PAINT INSPECTOR/RISK ASSESSOR

Jamie Marshall, B.S., Industrial Hygiene Associate

ODEQ Certification Number: OKRASR13418

Report Date

3-24-11

Jacob Jones, B. Industrial Hygiene Associate

ODEQ Certification Number: OKRASR13457

3. 24-11 Report Date

CERTIFIED LEAD-BASED PAINT FIRM

Marshall Environmental Management, Inc. 1601 Southwest 89th Street, Suite A-100 Oklahoma City, Oklahoma 73159

ODEQ Certification Number: OKFIRM11160

X-RAY FLUORESCE ANALYZER

Analyzer Make: Niton XLp Spectrum Analyzer

Analyzer Model: #XLp 300A Analyzer Serial Number: 12585 Source Date: November 11, 2006

IDABEL ARMORY

LEAD-BASED PAINT INSPECTION & SETTLED DUST SAMPLING

EXECUTIVE SUMMARY

On March 5, 2011, Marshall Environmental Management, Inc. (MEM) performed a Lead-Based Paint (LBP) Inspection in addition to collecting samples of settled dust within the Idabel Armory located at 2001 Industrial Parkway in Idabel, Oklahoma. This Inspection and sampling event were accomplished as part of the Oklahoma Department of Environmental Quality (ODEQ), Land Protection Division (LPD) Site Cleanup Assistance Program and Armory Cleanup Program with the purpose of establishing the presence of LBP and lead-laden dust so, if necessary, a strategy may be prepared for remediation and/or abatement activities.

The analytical data resulting from the surfaces that were sampled did not identify any LBP surfaces, however leadladen dust was discovered on various surfaces within the Armory. The remainder of this Report is comprised of the Sampling Methodology, Scope of Service, Analytical Findings, the Disclaimer and Standard of Care, information regarding LBP and the obligation to disclose the results of this LBP Inspection.

SAMPLING METHODOLOGY

This LBP Inspection and Settled Dust Sampling Event were conducted in accordance with the United States Department of Housing and Urban Development (HUD) guidelines, "Guidelines for the Evaluation of Lead-Based Paint Hazards in Housing," in addition to the requirements set forth by the Environmental Protection Agency (EPA), "Requirements for Lead-based Paint Activities in Target Housing and Child-occupied Facilities," 40 Code of Federal Regulations (CFR) Part 745.

SCOPE OF SERVICE

LEAD-BASED PAINT

All painted surfaces within the Armory were representatively sampled and analyzed for lead content excluding non-fixed and factory painted items utilizing an X-Ray Fluorescence (XRF), direct reading, data logging instrument. The street facing side of the Armory was labeled as Side A and going in a clockwise direction, the remaining sides were categorized as Side B, Side C and Side D respectively. The corresponding analytical data, including the start and stop times and calibration checks, and the floor plan diagram that illustrates room equivalents and specific sampling locations are provided with the Appendix to this Report.

LEAD-LADEN DUST

Settled dust collected from randomly selected floor surfaces throughout the Armory were sampled and analyzed for lead content. The settled dust is collected by placing a template of a known dimension firmly against the selected surface; next, the area within the template is wiped in a particular pattern utilizing a specified wipe; each wipe is then placed in an approved container for transportation purposes. The laboratory data resulting from the analysis of the

surface samples coincides with the sampling locations indicated on the floor plan diagram attached with the Appendix to this Report.

ANALYTICAL FINDINGS

LEAD-BASED PAINT

According to HUD/EPA "Lead-Based Paint" is characterized as paint that contains concentrations of lead greater than or equal to 1-milligram per square centimeter (≥1-mg/cm²). As such, no LBP was identified on any of the surfaces that were sampled as part of this Inspection.

LEAD-LADEN DUST

In accordance with HUD/EPA, settled dust containing concentrations of lead equal to or greater than 40-micrograms per square foot (40-µg/ft²) represent lead contamination; this action level applies to all surfaces within the Armory excluding the Indoor Firing Range (IFR). According to the Departments of the Army National Guard (ARNG) and the Air Force National Guard (ANG) Bureau guidelines, "Guidelines and Procedures for Rehabilitation and Conversion of Indoor Firing Ranges", lead concentrations within an IFR equal to or greater than 200-µg/ft² represent lead contamination. Therefore, the table below reflects the concentrations of lead in settled dust that were established throughout the Armory, the "Bolded" data represents lead concentrations, which exceeded the respective clearance levels.

TABLE I: SURFACE WIPE ANALYSIS

SAMPLE ID	LOCATION	CONCENTRATION	CLEARANCE LEVEL
0023-1	ROOM		A MOST COTTON STORY
0023-2	ROOM 2	<21.33-µg/ft²	40-μg/ft ²
0023-3	ROOM	213ml	To and the second
0023-4	ROOM 4	<21.33-µg/ft²	40-μg/ft ²
0023-5	ROOMS	CONTRACTOR OF THE CONTRACTOR O	40-to Harry No.
0023-6A	ROOM 6 NORTH	498.43-µg/ft ²	200-μg/ft²
0023-6B	BOOM 6 SOUTH	7.165.200	200 ug/lt²
0023-6C	ROOM 6 CENTER	5136.8-μg/ft ²	200-μg/ft²
0023-7	ROOM LEOMPOSITE	AZ04-ng/h	70-pg/ft
0023-7A	ROOM 7 NORTH	35.02-μg/ft²	40-μg/ft²
0023-7B	ROOM 7 CENTER	521 33 ug/lt	40 10/112
0023-7C	ROOM 7 SOUTH	<21.33-μg/ft²	40-μg/ft ²
0023-8	ROOM 8	2133-pyn'	40-jug/R ²
0023-9	ROOM 9	<21.33-µg/ft²	40-μg/ft ²
0023-10	ROOM 10	2193 pg/(1)	40-ng/0
0023-11	ROOM 11	<21.33-μg/ft²	40-μg/ft ²
0023-12	ROOM 12	<21.33-pp/₽²	40-µg/m²
0023-13	ROOM 13	<21.33-μg/ft²	40-μg/ft ²
0023-14	ROOM 14	2133-well	40-pg/ft

SAMPLE ID	LOCATION	CONCENTRATION	CLEARANCE LEVEL
0023-15	ROOM 15	<21.33-μg/ft²	40-μg/ft ²
0023-16	ROOM 16.	√2 33-µg/ft²	40-ug/ft ²
0023-17	ROOM 17	39.87-μg/fl²	40-μg/ft²
0023-18	ROOM 18	33.33 pg fr	40-pg/g
0023-19	ROOM 19	37.75-μg/ft ²	40-μg/ft ²
0023-20	ROOM 20	eas spet	40-pg/f ²
0023-21	ROOM 21	<23.9-µg/ft²	40-μg/ft²
0023-22	ROOM 22	23.9 pent	40-pg/ft ²
0023-23	ROOM 23	58.33-μg/ft ²	40-μg/ft²
0023-24	ROOM 24	49123 worth	10 pent

HISTORICAL OVERVIEW OF LEAD-BASED PAINT ACTIVITIES

Historical records were not provided for review nor was there evidence or information that would suggest that a prior LBP Inspection or Risk Assessment occurred within the Idabel Armory.

DISCLAIMER AND STANDARD OF CARE

The Idabel Armory is a one-story structure comprised of a brick façade and a flat roof that was constructed on a concrete slab circa 1981. Although the paint on various surfaces does not contain lead in concentrations that exceed the federal standard, a hazard could be presented if painted surfaces are disturbed. Occupational Safety and Health Administration (OSHA) regulations covering worker safety and health may apply when painted surfaces, lead-based paint or not, are disturbed. For any renovation that may disturb more than 2-square feet (2-ft²) of painted surface in a facility built before 1978 the EPA pre-renovation rule requires that the contractor provide a copy of the booklet "Protect Your Family From Lead in Your Home" or "Renovate Right: Important Lead Hazard Information for Families, Child Care Providers and Schools." Furthermore, if renovation of any kind takes place the contractor should provide a copy of "Renovate Right: Important Lead Hazard Information for Families, Child Care Providers and Schools." This Report was generated utilizing HUD/EPA protocols referenced in the Certification portion of this Report. The analytical results associated with this LBP Inspection are only applicable on the date(s) indicated and future activities may alter the results. At the time these services were completed, no deviations from the Scope of Service took place.

DISCLOSURE STATEMENT AND OWNERS LEGAL OBLIGATION

Under Federal law (24 CFR Part 35 and 40 CFR Part 745), this LBP Inspection Report must be disclosed and made available to prospective tenants before becoming obligated under a lease or sales contract where LBP is present. If an Inspection finds that LBP is not present in certain multifamily dwelling units, which are to be leased, the dwelling unit(s) is exempt from disclosure requirements. However, under federal law even if no LBP is identified the owner is still required to fulfill certain legal responsibilities when the property is sold not leased. Property owners and sellers are also required to distribute an educational pamphlet and include standard warning language in their leases or sales contracts to ensure that information is provided in order to protect children from LBP hazards.

Information regarding the legal obligation to disclose results associated with LBP inspections and/or risk assessments to tenants and/or purchasers can be obtained from the National Lead Information Center Clearinghouse (1-800-424-LEAD). This information is specified in 24 CFR Part 35 and 40 CFR Part 745 (published in the *Federal Register*, Volume 61, Number 45, April 6, 1996, beginning on p. 9064).

LEAD-BASED PAINT INFORMATION

You may contact the National Lead Information Center Clearinghouse (1-800-424-LEAD) to obtain HUD/EPA brochures, question and answer booklets, regulations, mentioned in this Report, and other information regarding LBP disclosure.

APPENDIX

XRF ANALYTICAL DATA

(CALIBRATION CHECKS & START & STOP TIMES)

SURFACE WIPES CHAIN OF CUSTODY & ANALYTICAL DATA

FLOOR PLAN DIAGRAMS

SURFACE WIPES

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Idabel Armory XRF Data

Marshall Environmental Management, Inc. 1601 Southwest 89th Street, Suite A-100 Oklahoma City, OK 73159

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Phone: (405) 616-0401 Fax: (405) 681-6753 marshenv@swbell.net

Chain Of Custody

Marshall Environmental Management, Inc.

1601 SW 89th St. Ste. A-100 Oklahoma Clry, OK 72159

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Phone: (405) 616-0401 Fax: (405) 681-6733 marshenv@swbell.net

Marshall Environmental Management, Inc. Chain Of Custody

1601 SW 89th St. Ste. A-100 Oklahoma City, OK 73159

Traisitaly@swoelinet	Parcialino				
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: (405) 616-0401 : (405) 681-6753 nv@swbell.net

Marshall Environmental Man

1601 SW 89th St. Ste. A-100 Oldahoma City, OK 73159	Marshall Environmental Management, Inc. Chain Of Custody	Phone: (4 Fax: (4 marshenve
PROJECT INFORMATION.	REPORT TO	

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2033 Heritage Park Drive/Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

Marshall Environmental Management, Inc. 1601 SW 89th Street, Ste. A-100 Oklahoma City, OK 73159

Re: QuanTEM ID 192796

QuanTEM appreciates the opportunity to provide analytical testing services to you. Attached are your reports and other supporting documentation for the above referenced project.

Thank you for making QuanTEM your lab of choice. If you have any question concerning this or other reports please feet free to contact us at 800-822-1650.

We continually work to improve our service. Help in out by providing feed back on your experience at www.QuanTRM.com. Click on Service Survey and fill out the form. We look forward to hearing from you.

Respectfully,
QuanTEM Laboratories, LLC.







2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

Environmental Chemistry Analysis Report

QuanTEM Set ID:

192796

Date Received:

03/10/11

Received By:

Sherrie Leftwich

Date Sampled:

Time Sampled:

Anaiyst:

BM

Date of Report:

3/24/2011

AIHA ID: 101352

Client:

Marshall Environmental Management,

1601 SW 89th Street, Ste. A-100

Oklahoma City, OK 73159

Acct. No.:

A331

Project:

Revised

Location: N/A

Project No.:

0023-LBP-030511-JJ

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
001	0023-1	Wipe	Lead	<21.33	21.33	ug/sq. Ft.	03/11/11 13:00	EPA600/R-93/200 / NIOSH 9100
002	0023-2	Wipe	Lead	<21.33	21.33	ug/sq. Ft.	03/11/11 13:00	EPA600/R-93/200 / NIOSH 9100
003	0023-3	Wipe	Lead	<21.33	21.33	ug/sq. Ft.	03/11/11 13:00	EPA600/R-93/200 / NIOSH 9100
004	0023-4	Wipe	Lead	<21.33	21.33	ug/sq. Ft.	03/11/11 13:00	EPA600/R-93/200 / NIOSH 9100
005	0023-5	Wipe	Lead	<21.33	21.33	ug/sq. Ft.	03/11/11 13:00	EPA600/R-93/200 / NIOSH 9100
006	0023-6A	Wipe	Lead	498.43	16.0	ug/sq. Ft.	03/11/11 13:00	EPA600/R-93/200 / NIOSH 9100
007	0023-6В	Wipe	Lead	7,165.2	16.0	ug/sq. Ft.	03/11/11 13:00	EPA600/R-93/200 / NIOSH 9100
008	0023-6C	Wipe	Lead	5136.8	16.0	ug/sq. Ft.	03/11/11 13:00	EPA600/R-93/200 / NIOSH 9100
009	0023-7	Wipe	Lead	42.04	16	ug/sq. Ft.	03/11/11 13:00	EPA600/R-93/200 / NIOSH 9100
010	0023-7A	Wipe	Lead	35.02	16.0	ug/sq. Ft.	03/11/11 13:00	EPA600/R-93/200 / NIOSH 9100
011	0023-7B	Wipe	Lead	<16.0	16.0	ug/sq. Ft.	03/11/11 13:00	EPA600/R-93/200 / NIOSH 9100

Note: Sample results have not been corrected for blank values.

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently identical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of the client and are not to be reproduced without specific written permission.

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.



2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

Environmental Chemistry Analysis Report

QuanTEM Set ID:

192796

Date Received:

03/10/11

Received By:

Sherrie Leftwich

Date Sampled:

Time Sampled:

Analyst:

вм

Date of Report:

3/24/2011

AIHA ID: 101352

Client:

Marshall Environmental Management,

Inc.

1601 SW 89th Street, Ste. A-100

Oklahoma City, OK 73159

Acct. No.:

A331

Project:

Revised

Location: N/A

Project No.: 0023-LBP-030511-JJ

QuanTEM					Reporting		Date/Time	
D	Client ID	Matrix	Parameter	Results	Limits	Units	Analyzed	Method
012	0023-7C	Wipe	Lead	<16.00	16.00	ug/sq. Ft.	03/11/11 13:00	EPA600/R-93/200 / NIOSH 9100
013	0023-8	Wîpe	Lead	<21.33	21.33	ug/sq. Ft.	03/11/11 13:00	EPA600/R-93/200 / NIOSH 9100
014	0023-9	Wipe	Lead	<21.33	21.33	ug/sq. Ft.	03/11/11 13:00	EPA600/R-93/200 / NIOSH 9100
015	0023-10	Wipe	Lead	<21,33	21.33	ug/sq. Ft.	03/11/11 13:00	EPA600/R-93/200 / NIOSH 9100
016	0023-11	Wipe	Lead	<21.33	21.33	ug/sq. Ft.	03/11/11 13:00	EPA600/R-93/200 / NIOSH 9100
017	0023-12	Wipe	Lead	<21.33	21.33	ug/sq. Ft.	03/11/11 13:00	EPA600/R-93/200 / NIOSH 9100
018	0023-13	Wipe	Lead	<21.33	21.33	ug/sq. Ft.	03/11/11 13:00	EPA600/R-93/200 / NIOSH 9100
019	0023-14	Wipe	Lead	<21.33	21.33	ug/sq. Ft.	03/11/11 13:00	EPA600/R-93/200 / NIOSH 9100
020	0023-15	Wipe	Lead	<21,33	21.33	ug/sq. Ft.	03/11/11 13:00	EPA600/R-93/200 / NIOSH 9100
021	0023-16	Wipe	Lead	<21.33	21.33	ug/sq. Ft.	03/11/11 13:00	EPA600/R-93/200 / NIOSH 9100
022	0023-17	Wipe	Lead	39.87	21.33	ug/sq. Pt.	03/11/11 13:00	EPA600/R-93/200 / NIOSH 9100

Note: Sample results have not been corrected for blank values.

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2033 Heritage Park Drive / Oldahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

Environmental Chemistry Analysis Report

QuanTEM Set ID:

192796

Date Received:

03/10/11

Received By:

Sherrie Leftwich

Date Sampled:

ate Sampied:

Time Sampled: Analyst:

BM

Date of Report:

20150

3/24/2011

AIHA ID: 101352

Client

Marshall Environmental Management,

Inc.

1601 SW 89th Street, Ste. A-100

Oklahoma City, OK 73159

Acet. No.:

A331

Project:

Revised

Location:

N/A

Project No.: 0023-LBP-030511-JJ

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
023	0023-18	Wipe	Lead	33.33	21.33	ug/sq. Ft.	03/11/11 13:00	EPA600/R-93/200 / NIOSH 9100
024	0023-19	Wipe	Lead	37.75	21.33	ug/sq. Ft.	03/11/11 13:00	EPA600/R-93/200 / NIOSH 9100
025	0023-20	Wipe	Lead	<21.33	21.33	ug/sq. Ft.	03/11/11 13:00	EPA600/R-93/200 / NIOSH 9100
026	0023-21	Wipe	Lead	<21.33	21,33	ug/sq. Ft.	03/11/11 13:00	EPA600/R-93/200 / NIOSH 9100
027	0023-22	Wipe	Lead	<21.33	21.33	ug/sq. Ft.	03/11/11 13:00	EPA600/R-93/200 / NIOSH 9100
028	0023-23	Wipe	Lead	58.33	21.33	ug/sq. Ft.	03/11/11 13:00	EPA600/R-93/200 / NIOSH 9100
029	0023-24	Wipe	Lead	493.24	21.33	ug/sq. Ft.	03/11/11 13:00	EPA600/R-93/200 / NIOSH 9100

Authorized Signature:

Benton Miller, Analyst

Note: Sample results have not been corrected for blank values.

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently identical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of the client and are not to be reproduced without specific written permission.

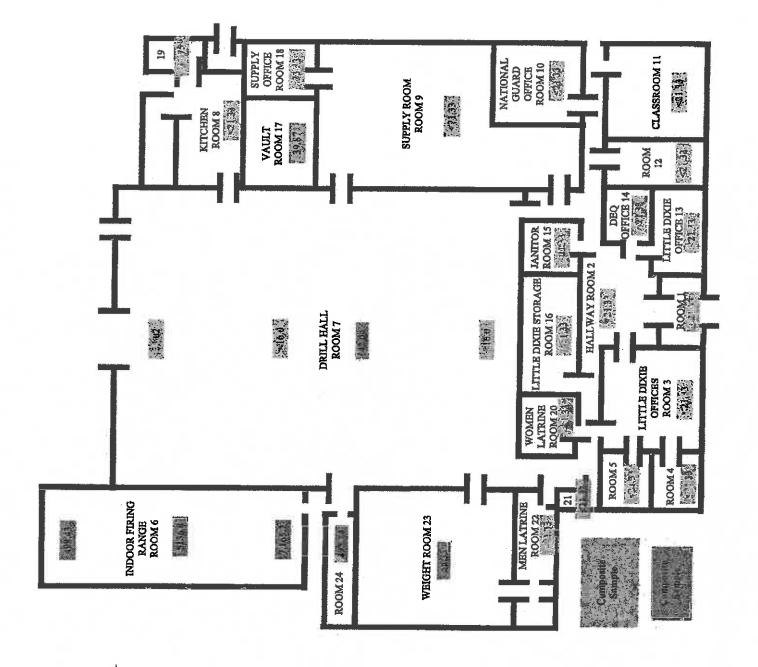
Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

IDABEL ARMORY

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MARSHALL ENVIRONMENTAL MANAGEMENT

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Certification #: OKFIRM11160

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Issued on: 4/1/2010

Expires on: 3/31/2011

Division Director

Air Quality Division



Environmental Programs Manager Air. Quality Division

Department of Environmental Quality

JACOB JONES

INSPECTOR/RISK ASSESSOR

Certification #1 OKRASR13457

This coefficate is walld from the date of it mance and outher as projecting law.

Issued on: 4/1/2010

Expires on: 3/31/2011

Air Quality Division Division Director



Environmental Programs Manager Air Quality Division

ASBESTOS INSPECTION REPORT

IDABEL ARMORY

DCS Contract Number: ID11070-5



PANDERUTECHONOUSION
DEPARTMENT OF ENGRUMENTAL QUALITY



Asbestos Inspection

Prepared For:

Oklahoma Department of Environmental Quality
Land Protection Division
707 North Robinson
Oklahoma City, Oklahoma 73102

Prepared By:

Marshall Environmental Management, Inc. 1601 Southwest 89th Street, Suite A-100 Oklahoma City, Oklahoma 73159

TABLE OF CONTENTS

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CERTIFICATION

This is to certify that, on March 5, 2011 Marshall Environmental Management, Inc was contracted by the State of Oklahoma, Department of Central Services to conduct an Asbestos Inspection of the Idabel Armory located at 2001 Industrial Parkway in Idabel, Oklahoma for the State of Oklahoma Department of Environmental Quality, Land Protection Division. This Asbestos Inspection was performed by a Licensed, Oklahoma Department of Labor, Asbestos Hazard Emergency Response Act Inspector Jamie Marshall, representative of Marshall Environmental Management, Inc, under the direction of a Licensed, Oklahoma Department of Labor, Asbestos Hazard Emergency Response Act Management Planner Dr. Charles L. Marshall Certified Industrial Hygienist and President of Marshall Environmental Management, Inc. The findings and analytical data resulting from this Asbestos Inspection are believed to accurately, depict the condition(s) and location(s) of material(s) that contains asbestos on the date this Inspection was conducted.

Ch 2 Mul	M	3-30-11		
Dr. Charles L. Marshall, CIH, CSP		Date		
Certified Industrial Hygienist -	Comprehensive Practice Certification	#4489		
Certified Safety Professional -	Comprehensive Practice Certification	#9941		
Registered Professional Enviro	nmental Specialist - State Department of Health	#710		
Certified Hazardous Materials	#1909			
Certified Healthcare Safety Pro	Certified Healthcare Safety Professional, Master Level Certification			
EPA AHERA Certifications ODOL License	Asbestos Inspector Management Planner Project Designer Project Designer Management Planner Asbestos Inspector	#400517 #500396 #2415 #OKMP-0028 #OKMP-0246 #OK-150343		

Jan ie Marshall, B.S., Industrial Hygiene Associate

ODOL License

Asbestos Inspector

Date

#OK-158090

LABORATORY ANALYSIS PERFORMED BY

Marshall Environmental Management, Inc. 1601 Southwest 89th Street, A-100 Oklahoma City, OK 73159

IDABEL ARMORY

EXECUTIVE SUMMARY

On March 5, 2011, Marshall Environmental Management, Inc. (MEM) completed an Asbestos Inspection of the Idabel Armory so, if necessary, a strategy, which follows the regulations set forth by the Environmental Protection Agency (EPA), may be prepared for the management and/or abatement of Asbestos Containing Materials (ACM). As such, the analytical results correlating with the samples that were collected as part of this Asbestos Inspection did not identify the presence of materials that contain asbestos; therefore, no further actions regarding ACM are required. The remainder of this Report is comprised of the Sampling Strategy and Methodology, the Observations and Findings, the Regulatory Review, Limitations of the Survey and the Appendix to this Report.

SAMPLING STRATEGY AND METHODOLOGY

Each accessible area throughout the Armory was systematically inspected in order to collect samples of building materials suspected of containing asbestos. The sample collection process includes thoroughly documenting the location, condition, classification and the estimated quantity of material(s) suspected of containing asbestos. Suspect ACM that are uniform in color and texture and believed to be applied during the same period are described as "Homogenous." A specified number of samples are collected from a homogenous material and if laboratory analyses determine that the material contains asbestos, the entirety of the homogenous material is considered asbestos containing. The following are examples of the types of materials that were visually inspected and sampled during this Asbestos Inspection:

Surfacing Materials

• Examples include but are not limited to blown on or troweled on surfacing material commonly observed on ceilings, walls or structural steel.

Thermal System Insulation

• Examples include but are not limited to insulation on piping, thermal process or Heating Ventilation and Air Conditioning (HVAC) equipment and components.

Miscellaneous Materials

• Examples include but are not limited to floor and ceiling tiles, mastics, vinyl sheet-flooring, wallboard, wallboard-tape and mud or joint compounds.

"Asbestos Containing Materials" are any materials, which consist of greater than one percent (>1%) asbestos as defined by the EPA Approved Analytical Method: 40 Code of Federal Regulations (CFR) Chapter I, Part 763, Subpart F, Appendix C, referred to as "Interim Method for determination of Asbestos in Bulk Insulation Samples," using Polarized Light Microscopy (PLM), US EPA 600/M4-82-020 1982. Each sample collected was submitted for analysis in accordance with the EPA authorized Method: 600 49 CFR Part 61 Subpart M, Asbestos National Emission Standard for Hazardous Air Pollutants (NESHAP) Rules.

OBSERVATIONS AND FINDINGS

The Idabel Armory is a one-story structure comprised of a brick façade and a flat roof that was constructed on a concrete slab foundation in approximately 1981. The analytical data resulting from the samples that were collected during this Inspection did not discover any materials that contain asbestos. The correlating chain of custody forms and laboratory analysis is provided for your records in the Appendix to this Report.

REGULATORY REVIEW

Prior to 1980 asbestos was commonly utilized during construction in addition to being found in various building materials. In 1994, Occupational Safety and Health Administration (OSHA) required employers to identify ACM in pre-1980 construction as part of its Standard for Occupational Exposure to Asbestos in Construction (29 CFR 1926.1101), this OSHA standard covers maintenance, repair and removal functions involving ACM or Presumed ACM (PACM). Without Asbestos Inspections, owners and/or operators must treat suspected ACM as asbestos. The EPA and the Oklahoma Department Of Labor (ODOL) define an ACM as any material that contains concentrations of asbestos >1%.

The ODOL regulates the Hazard Communication requirements for public employees as part of the ODOL Public Employees Occupational Safety and Health (PEOSH) Program. The State of Oklahoma Hazard Communication Standard (HAZCOM), revised as of August 2006, is provided in the Oklahoma Asbestos Control Act (OAC) 380 Chapter 45: http://www.ok.gov/odol/documents/Asbestos law rules.pdf

Specific provisions of the OAC Standard (45-15-1) address asbestos notifications and labeling requirements. The labeling requirements specify that pipe insulation and various equipment insulation that contains asbestos as well as rooms where asbestos is present be identified with an Asbestos Warning Label. The asbestos warning labels are to be readily visible and include the following warning:

DANGER

CONTAINS ASBESTOS FIBERS AVOID BREATHING DUST

CANCER AND LUNG DISEASE HAZARD

Section 380:45-15-2 requires a notice to employees when ACM are used in acoustical materials on ceilings and walls this type of ACM is referred to as Surfacing Material.

The EPA requires asbestos inspections in school buildings in grades K through 12 as part of the Asbestos Hazard Emergency Response Act (AHERA), which is authorized in 40 CFR 763.6. If asbestos is present within School Facilities grades K-12 an Asbestos Management Plan is required by the Local Educational Authority (LEA) to be in place.

The AHERA sampling protocol addresses the systematic sample collection of all forms of ACM in addition to categorizing ACM materials as friable, that which can be rendered to a powder by hand pressure, Category I or II non-friable. The AHERA Inspection must also evaluate the condition and the potential for disturbance of ACM.

In addition to AHERA, the EPA also regulates commercial asbestos abatement activities. A NESHAP notification is required to be submitted to the ODEQ 10-business day prior to the abatement of ACM whenever the quantities meet or exceed 160-square feet, 260-linear feet or 35-cubic feet. Instruction regarding NESHAP notification requirements and ODEQ compliance are provided on the DEQ website at: http://www.deq.state.ok.us/agdnew/asbestos/index.htm

Land disposal requirements are also regulated by the EPA through State Landfill Permits. These efforts are now administered by the ODEQ Air Quality and Land Protection regulations. The ODEQ requires the advance filing of a NESHAP notification when any demolition or renovation activities take place. The NESHAP notification process tracks abated ACM to an ODEQ approved landfill on a project-by-project basis.

The ODOL Asbestos Division regulates Asbestos Abatement by implementing the rules that govern the abatement of friable ACM. Under the ODOL asbestos rule, OAC 380:50, only adequately licensed Contractors can perform asbestos abatement, develop management plans and project designs. All abatement supervisors, abatement workers and asbestos inspectors must be licensed by the ODOL. The ODOL Rules are available on the ODOL web site at: http://www.ok.gov/odol/

LIMITATIONS OF SURVEY

This Asbestos Inspection was limited to certain aspects of the building construction these limitations may have restricted or prevented the complete inspection of hidden or inaccessible building materials; therefore, inaccessible building materials were not inspected. Furthermore, locations presenting a hazard to bystanders or the Inspector were not assessed.

The findings resulting from this Inspection are valid as of the date this Asbestos Inspection was performed; however, changes in the conditions of a property may certainly occur with the passage of time whether due to natural processes or the works of man. Additionally, changes in applicable or appropriate standards may also occur possibly resulting from legislation or the expansion of knowledge.

Our Investigation was conducted using the degree of care and skill ordinarily exercised by professional consultants under similar circumstances practicing in this or similar localities. Professional services have been performed; results associated with this Asbestos Inspection were obtained and reported in accordance with generally accepted principles and practices. No other representations either expressed or implied are made; thus, Marshall Environmental Management, Inc. is not responsible for independent conclusions, opinions, or recommendations made by others. It should also be noted that as-built plans were not available for review or use in the planning of this Asbestos Inspection.

APPENDIX

CHAIN OF CUSTODY & ANALYTICAL RESULTS

LICENSES

Phone: (405) 616-0401 Fax: (405) 681-6753 marshenv@swbell.net

al Management, Inc. Chain Of Custody

Marshall Environmental	Chain Of Cr

1601 SW 89th St. Ste. A-100 Okdahoma City, OK 73159

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Project IId	0022-AB-030511	Chetic onp.m.	State of Oklahoma - Department of Central Services	Classiff on pany	Oklahoma Department of Environmental Quality - Land
Project Name	Idabel Armory	- Attacking	Cindy Melton	Anentan	Dustin Davidson
	Aspesios inspection	TRE	Administrative Programs Director	Twip	
Project Address	idabel, OK 74745	West to A time	P.O. Box 53448 Oklahoma City, OK 73152-3448	Addrey,	P.O. Boz. 1677 Oklahema Civ. OK 73101
Sta Contact	Tina Thomas	Plant Manage	405-522-4805	Phone Nue 10s	405-702-5115
Phone Namber		Faw Mussher	405-522-0051	Fax Numero	
Mobile Number	580-612-8070	NEW PROPERTY.		Mobile Number	
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J 2 J	3/5/2011	3/5/2011	3/5/2011	3/5/2011	3/5/2011	3/5/2011	3/5/2011	3/5/2011	3/5/2011	3/5/2011	4
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Phone: (405) 616-0401 Fax: (405) 681-6753 marshenv@swbell.net

Marshall Environmental Management, Inc. Chain Of Custody

1601 SW 89th St. Ste. A-100 Oklahoma City, OK 73159

State of Oklahoma - Department of Central Services Cindy Melton Administrative Programs Director P.O. Box 53448 Oklahoma City, OK 73152-3448 405-522-4805 Oklahoma City, OK 73152-3448		PROJECT IN FORMALION		INVOICE 10		RIPORT TO
Idabel Armory Adulton Cindy Melton Cindy Melton Cindy Melton Administrative Programs Director 2001 Industrial Parkway I	Project Id	.0022-AB-030511	Clenkompan	State of Oklahoma - Department of Central Services	Chedicaman	Oklahoma Department of Environmental Quality - Land
Addition Asbestos Inspection Truly Addition Programs Director 2001 Industrial Parkway Institute Programs Director 2001 Industrial Parkway Institute Programs Director Rabel, OK 74745 The Thomas Institute Programs Director Pro. Box 53448 Oklahoma City, OK 73152-3448 For Number 405-522-4805 For Number 405-522-0051 For Number 580-612-8070 Programs Director Pro. Box 53448 Oklahoma City, OK 73152-3448 For Number 405-522-4805 For Number 405-522-0051	Protect Name	Idabel Annory	K Din	Cindy Melton	Attention	Protection Division
1		Asbestos Inspection	. T. I. I. I.	Administrative Programs Director		DESTIT DEVIESOR
Number 580-612-8070 Retoric Courts Contract Address Contr	Project Address	2001 Industrial Parkway Idabel, OK 74745	The Court of the S	P.O. Box 53448 Oklahoma City, OK 73152-3448	Today	P.O. Box 1677
Number 580-612-8070 Retoine Gumber 605-522-0051	Ste Centact	Tina Thomas	Court Valence	405-522-4805	Physic Masher	405-702-5115
Astonic Number 580-612-8070 Astonic Number Property Number Property Number Property Number Nu	Phone Number		Fax Number	405-522-0051	Fax Number	
Bural Address	Mobile Number	580-612-8070	Moiste Number		Mebitoninha	
	eunil		Capal Adress	Control of the street of the	E-mail Address	The transfer of the second

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Marshall Environmental Management, Inc. Chain Of Custody

Marshall E	
1601 SW 89th St. Ste. A-100 Oklahoma City, OK 73159	

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Particular Par	Propertial	0022	AB-030511		Cl. A. C. stores	State of Okla	ahoma - Department o	of Central Services	Clerk	of ompan"	Oklaho	oma Departriion Division	nent of Environmen	ntal Quality - Land
	Project Name	Asbe	tos Inspection		Tarlo	Cindy Melto Administrativ	n ve Programs Director		Title	lon.	Dustin	Davidson		
	Project Addition	Idabe	Industrial Park I, OK 74745	мау	inant to Addess	P.O. Box 534 Oklahoma Ci	448 ity, OK 73152-3448		MAL		P.O. B	ox 1677 oma City, Ol	K 73101	
	Sife Contact	Tina	Thomas		Thur Name	405-522-480	56		200.74	Number.	405-70	2-5115		
	Phone Namber				Lux Mander	405-522-005	11		14. 20.	mpe				
1.5 1.5	Mahite Nausher	280-6	12-8070		Liolate Number				Moh	c Namber				
No. 20 N	cmail				E-mail Makeys	Quintil.	en a dubstrate		7	Address	7	S. 12.		
35/2011 B-22 Room 3 South Ceiling Tile Room 12 South Bed Tape Room 12 Sout		Semple	pi pier	व्यक्तिहरू व्यक्तिहरू	المنتمين الدي		op vis	- E 7	- Parties	Same	Solumesk	Cont	Auth 95	Prior store
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Marshall Environmental Management, Inc. Chain Of Custody

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The state of the s	PR.	PROJECT INTORMACIUM	eMA (JU).		INVOICE 10					REPORT 10
Project Md	0027	0022-AB-030511	***************************************	Cheristicumany	State of Oklahoma - Department of Central Services	nt of Central Services	Chent	Chant conperts	Oklahoma Departm	Oklahoma Department of Environmental Quality - Land Protection Division
Project Name	Idab	Idabel Armory Asbestos Inspection		Attorbus	Cindy Melton		A-throughon	ion	Dustin Davidson	vidson
Project Address	2001 Idab	2001 Industrial Parkway Idabel, OK 74745	жау	Tura o Andres	P.O. Box 53448 Oklahoma City, OK 73152-3448	88	HE HE	# # P7	P.O. Box 1677 Oklahoma City	P.O. Box 1677 Oklahoma City OX 71101
Sata Contract	Tina	Tina Thomas		Phene Marabe.	405-522-4805		Phone	Phone Number	405-702-5115	11.5
Physic \mmber				Lax Number	405-522-0051		FORNI	F.ts. Number		
Mobile Number	580-	580-612-8070		Modelle Number			Mohile	Wohle Name:		
emaji				Frail Aduess	Colpus Standard	3	F-83	Frital Aúdoss	db. n. e. 65.	اردود سخاف والردائية المديقة
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	Room 11 North Bed Tape	Room 11 North Bed Mud	Room 11 North Dry Wall	Room 16 Hot Water TSI	Room 19 Hot Water TSI	Room 3 Hot Water TSI	Room 2 South Tan 12x12 Floor Tile	Room 2 South Yellow Mastic	Room 2 East Tan 12x12 Floor Tile	Room 2 East Yellow Mastic	00	X X	S ST ST ST ST ST ST ST ST ST ST ST ST ST	frail.	1. state agile	Cundition Univer Receipt	seminar in		
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Marshall Environmental Management, Inc. Chain Of Custody

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Phone: (405) 616-0401 Fax: (405) 681-6753 marshenv@swbell.net

men en	PROJECT INFORMATION	gar = a nasa-	OLTONIA	101	REPORT TO
	.0022-AB-030511	rath, engan	State of Oklahoma - Department of Central Services	ChairCompany	Oklahoma Department of Environmental Quality - Land Protection Division
Project Name	Idabel Annory	ting	Cindy Melton	Alebba Al	Dustin Davidson
And the second s	Assessios inspection	1.1tk	Administrative Programs Director	Tele	11/2
Project Address	Lout Industrial Parkway Idabel, OK 74745	fawter To lekters	P.O. Box 53448 Oklahoma City, OK 73152-3448	vskajpy	P.O. Box 1677 Oklahoma City, OK 73101
Sta Contact	Tina Thomas	Plone North	405-522-4805	Phone Markur	405-702-5115
Phone Veraber	of the state of th	Fax Number	405-522-0051	Fox bander	
Mobile Number	580-612-8070	Atobile Number		Mahile Nuraher	
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Free L	B-41 R	B-42 Re									7	1			of Day		4 +
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Marshall Environmental Management, Inc.

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_			Man Shenry 65344 Dell-met		
PF	ROJECT LOCATION		INVOICE TO		REPORT TO
Project Id.	0022-AB-030511	Client	State of Oklahoma Department of Central Services	Client	State of Oklahoma Department of Environmental Quality
Project Idab Asbe	Idabel Armory	1	Construction & Properties Division	.	Land Protection Division
Project	Asbestos Inspection	Attention	Cindy Melton	Attention	Dustin Davidson
Dunions Adduson	2001 Industrial Parkway	4.44	P.O. Box 53448	Address	P.O. Box 1677
Project Address	Idabel, OK 74745-2330	Address	Oklahoma City, OK 73102	Aduress	Oklahoma City, OK 73102
Contact	Tina Thomas, City Clerk	Phone	405-5622-4805	Phone	405-702-5115
Phone	580-286-76068	Far	405-522-0051	Fax	

cindy_melton@dcs.state.ok.us

Other

email

dustin.davidson@deq.ok.gov

Other

email

~		υ		SAMPLE DESCRIPTION/LOCATION	SAM	PLE COMPOSITION	NO ASBESTOS	DETECTED
LAB LOG NUMBER	0016-030511-PLM-01	DATE OF SAMPLING		Beige 12x12 Floor Tile	COLOR	Beige/Tan	100%	6 Vinyl Aggregate
<u>¥</u>	置	¥	201	Room 14	CONDITION	Good		
Õ	2511	SA	March 5, 2011	Northwest	ТҮРЕ	Miscellaneous		
2	-03	0	Marc		NOTE			
[AB	9016	ATI						
		1						
~:	2	U		SAMPLE DESCRIPTION/LOCATION	SAMI	LE COMPOSITION	NO ASBESTOS	DETECTED
BEI	М-0′.		_	Yellow Mastic	COLOR	yellow	100%	Adhesive
Ma i	宁	Æ	201	Room 14	CONDITION	Good	·	
CN)511	S.	March 5, 2011	Northwest	TYPE	Miscellaneous		
1.0	-03	0.5	Marc		NOTE			
LAB LOG NUMBER	0016-030511-PLM-02	DATE OF SAMPLING	~					
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~	3	G		SAMPLE DESCRIPTION/LOCATION	SAMP	LE COMPOSITION	NO ASBESTOS	DETECTED
BEI	M-0.		_	Beige 12x12 Floor Tile	COLOR	Beige/Tan	100%	Vinyl Aggregate
<u> </u>	-PL	ğ	March 5, 2011	Room 14	CONDITION	Good		
۲ ق)511	S.	ь 5,	Northeast	TYPE	Miscellaneous		
LAB LOG NUMBER	-03	0	Varc		NOTE			
3	0016-030511-PLM-03	DATE OF SAMPLING					•	
<u>.</u> ∫	4	ی		SAMPLE DESCRIPTION/LOCATION	SAMP	LE COMPOSITION	NO ASBESTOS I	
LAB LOG NUMBER	\$]	<u>[</u>]	_	Yellow Mastic	COLOR	yellow	100%	Adhesive
<u> </u>	둭	\$	ž	Room 14	CONDITION	Good		
ے ا	15	SA	й 5,	Northeast	TYPE	Miscellaneous		
을	8	ō	March 5, 2011		NOTE			
3	0016-030511-PLM-04	DATE OF SAMPLING	_ [
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ا يم	ر د	ا ي		SAMPLE DESCRIPTION/LOCATION	SAMP	LE COMPOSITION	NO ASBESTOS I	DETECTED
BE	3	<u> </u>	_ [Beige 12x12 Floor Tile	COLOR	Beige/Tan	100%	Vinyl Aggregate
<u> </u>	ન	Ŋ.	March 5, 2011	Room 14	CONDITION	Good		
2	0511	SA	й. 5	Southeast	TYPE	Miscellaneous		
급	ž	<u> </u>	Marc		NOTE			
LAB LOG NUMBER	0016-030511-PLM-05	DATE OF SAMPLING						
_	_	<u> </u>	[

amie Marshall, B.S., Industrial Hygiene Associate

ANALYST SIGNATURE

ANALYST NAME (PRINT)

Polarized Light Microscopy Asbestos Analysis Test Method:

Jamie Marshall

Cell

email

580-612-8070

trfoshee63@hotmail.com

40 CFR Chapter I, Part 763, Subpart F, Appendix A, "Interim Method for determination of Asbestos in Bulk Insulation Samples" using Polarized Light Microscopy (PLM), US EPA 600/M4-82-020 1982.

Lab Accreditation: AIHA PAT ID# 102334

March 15, 2011

DATE ANALYZED

Marshall Environmental Management, Inc.

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PR	OJECT LOCATION		INVOICE TO		REPORT TO	
Project Id.	0022-AB-030511		State of Oklahoma		State of Oklahoma	
r roject iu.	0022-AB-030311	Client	Department of Central Services	Client	Department of Environmental Quality	
Project	Idabel Armory		Construction & Properties Division	ľ	Land Protection Division	
riojeci	Asbestos Inspection	Attention	Cindy Melton	Attention	Dustin Davidson	
Project Address	2001 Industrial Parkway	4.11	P.O. Box 53448		P.O. Box 1677	
rroject Address	Idabel, OK 74745-2330	Address	Oklahoma City, OK. 73102	Address	Oklahoma City, OK. 73102	
Contact	Tina Thomas, City Clerk	Phone	405-5622-4805	Phone	405-702-5115	
Phone	580-286-76068	Fax	405-522-0051	Fax	1	

cindy_melton@dcs.state.ok.us

Other

email

dustin.davidson@deq.ok.gov

Other

email

-	\ <u>\</u>	U		SAMPLE DESCRIPTION/LOCATION	SAME	PLE COMPOSITION	NO ASBESTOS	DETECTED
BE	Ŏ	Ė		Yellow Mastic	COLOR	Yellow	100	% Adhesive
Į Ž	걸	M	201	Room 14	CONDITION	Good		
S	511	YS.	h 5,	Southeast	ТҮРЕ	Miscellaneous		
2	93	10.5	March 5, 2011		NOTE			
LAB LOG NUMBER	0016-030511-PLM-06	DATE OF SAMPLING	-				<u> </u>	
ட		Q					,	-
~	7	G		SAMPLE DESCRIPTION/LOCATION	SAMP	LE COMPOSITION	NO ASBESTOS	DETECTED
LAB LOG NUMBER	M-0	I.		Ceiling	COLOR	White	959	Calcareous Material
E	14	MP	201	Room 8	CONDITION	Good	59	Fibrous Glass
Z	1150	FSA	:h 5,	East	TYPE	Miscellaneous		
07	5-03	E O	March 5, 2011		NOTE			
[AB	0016-030511-PLM-07	DATE OF SAMPLING	_					
		<u> </u>			<u> </u>			
~	œ	ين		SAMPLE DESCRIPTION/LOCATION	SAMP	LE COMPOSITION	NO ASBESTOS	
(BE	Σ.		_	Ceiling	COLOR	White	95%	6 Calcareous Material
IO.	트	Ŋ.	5, 2011	Room 20	CONDITION	Good	5%	Fibrous Glass
ŝ	051)	FSA	й 5,	Center	ТҮРЕ	Miscellaneous		
LAB LOG NUMBER	0016-030511-PLM-08	E 0	March		NOTE			
<u> </u>	ě,	DATE OF SAMPLING						
		-	_		[
~ │	<i>∞</i>	ا ي	Ļ	SAMPLE DESCRIPTION/LOCATION	SAMPI	LE COMPOSITION	NO ASBESTOS	
	Σ,		_	Ceiling Tile	COLOR	White	95%	Calcareous Material
	를 [\$	5, 2011	Room 4	CONDITION	Good	5%	Fibrous Glass
5	051	F S	3h 5,	East	ТҮРЕ	Miscellaneous		
LAB LOG NUMBER	0016-030511-PLM-09	02	March		NOTE			
3	8	DATE OF SAMPLING	_					
		-						
~	ا ہ	ភ្ជ	L	SAMPLE DESCRIPTION/LOCATION		E COMPOSITION	NO ASBESTOS	
(BE	₹	Į	<u>-</u>	Ceiling Tile		Gray		Calcareous Material
ğ	를	3	<u>8</u> [Room 20	CONDITION	Good		Cellulose
LAB LOG NUMBER	0016-030511-PLM-10	E S.	March 5, 2011			Miscellaneous		Fibrous Glass
교	90	E O	[™] Aar		NOTE		20%	Perlite
I.A.	8 E	DATE OF SAMPLING						

Jamie Marshall
Analyst Name (Print)

Analyst Signature

March 15, 2011

Analyst Signature

Date Analyzed

Polarized Light Microscopy Asbestos Analysis Test Method:

Cell

email

580-612-8070

trfoshee63@hotmail.com

40 CFR Chapter I, Part 763, Subpart F, Appendix A, "Interim Method for determination of Asbestos in Bulk Insulation Samples" using Polarized Light Microscopy (PLM), US EPA 600/M4-82-020 1982.

Lab Accreditation: AIHA PAT ID# 102334

Marshall Environmental Management, Inc.

1601 Southwest 890th Street, Suite A-100 Oklahoma City, OK 73159 Phone: (405) 616-0401 Fax: (405) 681-6753

		ГГ	COLF	ECT LOCATION		INVO	DICE TO			REPO	RT T	O'
	ect Id.			-AB-030511 el Armory	Client		ma Central Services Properties Division	Client		State of Oklahom Department of En Land Protection I	vironm	-
roje	ect			stos Inspection	Attention	Cindy Melton		Attenti	ion	Dustin Davidson		
roje	ct Ad	dress	Idabe	Industrial Parkway el, OK 74745-2330	Address	P.O. Box 53448 Oklahoma City,	OK 73102	Addres		P.O. Box 1677 Oklahoma City, O	OK 731	02
Cont				Thomas, City Clerk	Phone	405-5622-4805		Phone		405-702-5115		
hon Cell	<u>e</u>			286-76068 512-8070	Fax Other	405-522-0051		Fax Other				
mail	[nee63@hotmail.com	email	cindy melton@	2)dcs.state.ok.us	email		dustin.davidson	@deq.	ok.gov
				SAMPLE DESCRIPTION/LO	CATION		PLE COMPOSITION	 		NO ASRE	STOS 1	DETECTED
8	.1.	DATE OF SAMPLING	1	Ceiling Tile	CATION	COLOR	Gray			NO ABBE	_	Calcareous Materia
MB.	0016-030511-PLM-11	E	=	Room 12		CONDITION	Good	+ +				Cellulose
LAB LOG NUMBER	∐-₽	W	March 5, 2011	Room 12		TYPE	Miscellaneous				_	Fibrous Glass
8	305	FS	뒫		 		Miscellaneous					Perlite
Ä	9	lβ	Ma			NOTE	<u> </u>				20%	reinic
Y	8	₹		,		<u> </u>		\longrightarrow			 	<u> </u>
_ ~		U		SAMPLE DESCRIPTION/LO	CATION	SAM	PLE COMPOSITION			NO ASBE	STOS I	DETECTED
	M-1:		_	Ceiling Tile		COLOR	Gray					Calcareous Materia
<u> </u>	-PL	₹	201	Room 12		CONDITION	Good				40%	Cellulose
<u>ک</u> ا	511	SA	h 5,			TYPE	Miscellaneous				30%	Fibrous Glass
요	-030	Ö	March 5, 2011			NOTE					20%	Perlite
LAB LOG NUMBER	0016-030511-PLM-12	DATE OF SAMPLING	_		•							
		_										
ا ہـ	3	ı		SAMPLE DESCRIPTION/LO	CATION	SAMI	PLE COMPOSITION			NO ASBES	,	DETECTED
	¥ .		_	Cove Base		COLOR	Brown				100%	Rubber
₹	-PL	¥	201	Room 9		CONDITION	Good					
LAB LOG NUMBER	115	SA	h 5,			ТУРЕ	Miscellaneous			_		
3	93	0	March 5, 2011			NOTE						
AB	0016-030511-PLM-13	DATE OF SAMPLING										
_		ū										
z	4	NG		SAMPLE DESCRIPTION/LO	CATION	 	PLE COMPOSITION	+ -		NO ASBES		Adhesive
MIBER	Ż	MPLING	011	Cove Base Mastic		COLOR	Yellow	+			100%	Adnesive
	<u>-</u>	AM	n I	Room 9		CONDITION	Good			<u>-</u>		,
LAB LUG N	3051	FS	March 5,			TYPE	Miscellaneous	\rightarrow				
ן בַּ	0016-030511-PLM-14	DATE OF SAN	Ϋ́a			NOTE	1	+ +				
≸	8	[Va	ŀ					1 1				
+	\dashv		\dashv	SAMPLE DESCRIPTION/LO	CATION	SAME	PLE COMPOSITION			NO ASBES	TOS D	ETECTED
¥	-15	ING	ł	Cove Base		COLOR	Brown					Rubber
ME	F.	(PL	<u> </u>	Room 14		CONDITION	Good					·
Z	=	SAN	5,2			ТҮРЕ	Miscellaneous					
3	305	OF.	March 5, 2011			NOTE		1 1				
LAB LOG NUMBER	0016-030511-PLM-15	DATE OF SAMPLING	≱ ⊦									-
	8	DA	ŀ				<u> </u>	_				
_			ᆣ		-/-}		4 2/					
					11 b	101	カイレブ	7				

ANALYST NAME (PRINT)

Polarized Light Microscopy Asbestos Analysis Test Method:

40 CFR Chapter I, Part 763, Subpart F, Appendix A, "Interim Method for determination of Asbestos in Bulk Insulation Samples" using Polarized Light Microscopy (PLM), US EPA 600/M4-82-020 1982.

ANALYST SIGNATURE

Lab Accreditation;
AIHA PAT ID# 102334

DATE ANALYZED

Marshall Environmental Management, Inc.

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						<u>marshe</u>	nv:@swbell.net		
		PF	ROJE	ECT LOCATION		INV	DICE TO		REPORT TO
Proje	ect Id.	· ·	0022	-AB-030511	Client	State of Oklaho Department of	oma Central Services	Client	State of Oklahoma Department of Environmental Quality
Proje	aat			l Armory		Construction &	Properties Division		Land Protection Division
ı roje	-		Asbe	stos Inspection	Attention	Cindy Melton		Attention	Dustin Davidson
Desid	ect Ad	duces	2001	Industrial Parkway	4 4 4	P.O. Box 5344	8	4.23	P.O. Box 1677
rroje	eu Ag	uress	Idabe	l, OK 74745-2330	Address	Oklahoma City	, OK 73102	Address	Oklahoma City, OK 73102
Cont	act		Тіпа	Thomas, City Clerk	Phone	405-5622-4805		Phone	405-702-5115
Phon	e		580-2	86-76068	Fax	405-522-0051		Fax	<u> </u>
Cell			580-6	12-8070	Other	1	•	Other	
emai	<u> </u>		trfosh	ee63@hotmail.com	email	cindy melton	@dcs.state.ok.us	email	dustin.davidson@deq.ok.gov
	,,	ی		SAMPLE DESCRIPTION	V/LOCATION	SAM	PLE COMPOSITION	•	NO ASBESTOS DETECTED
TUMBER	-PLM-16	MPLING		Cove Base Mas	tic	COLOR	Yellow		100% Adhesive
	ij	Ę	2011	Room 14		CONDITION	Good		
5	li		, , , , , ,			}			<u> </u>

_ ~	\ \s	U		SAMPLE DESCRIPTION/LOCATION	SAM	PLE COMPOSITION	NO ASBESTOS	DETECTED
LAB LOG NUMBER	0016-030511-PLM-16	DATE OF SAMPLING	_	Cove Base Mastic	COLOR	Yellow	100%	6 Adhesive
Į §	Ę	ğ	201	Room 14	CONDITION	Good		
I S	1150	SA	March 5, 2011		ТҮРЕ	Miscellaneous		
3	-03	Ö	Aarc		NOTE			
I W	0016	ΙĘ	_					
		α						
بہ ا	_	ß		SAMPLE DESCRIPTION/LOCATION	SAMI	PLE COMPOSITION	NO ASBESTOS	DETECTED
BE	0016-030511-PLM-17			Cove Base	COLOR	Brown	100%	Rubber
₹	Ė	MP	201	Room 1	CONDITION	Good		.,,,
I Z)511	SA	March 5, 2011		TYPE	Miscellaneous		_
3	89	[0]	Marc		NOTE			**
LAB LOG NUMBER	18	DATE OF SAMPLING	-		1			
匚								
	∞	9		SAMPLE DESCRIPTION/LOCATION	SAMP	LE COMPOSITION	NO ASBESTOS I	DETECTED
	₹	ן בַּוּ	1	Cove Base Mastic	COLOR	Yellow	100%	Adhesive
[\frac{\bar{B}}{2}	<u>-</u>	Ŋ	March 5, 2011	Room 1	CONDITION	Good		
5	0511	F SA	зh 5,		ТҮРЕ	Miscellaneous		
Ĭ	5-03	O _D	Marc		NOTE			
LAB LOG NUMBER	0016-030511-PLM-18	DATE OF SAMPLING						
					<u> </u>			
	6	ان		SAMPLE DESCRIPTION/LOCATION	SAMP	LE COMPOSITION	NO ASBESTOS I	DETECTED
BE	M-1		_	HVAC Thermal System Insulation	COLOR	Yellow	100%	Fibrous Glass
15.	Ξ	Ž	8	Room 16	CONDITION	Good		
6.9	051]	F SA	Sh 5,		TYPE	Thermal System Insulation		
LAB LOG NUMBER	0016-030511-PLM-19	E 0]	March 5, 2011		NOTE			
[Y]	ğ	DATE OF SAMPLING						
		-	_					
~	ا و	ي	į	SAMPLE DESCRIPTION/LOCATION	SAMP	LE COMPOSITION	NO ASBESTOS D	ETECTED
IBE	7-₩	1	=		COLOR	Yellow	100%	Fibrous Glass
LAB LOG NUMBER	0016-030511-PLM-20	MA	March 5, 2011	Room 12	CONDITION	Good		
્રિં	52	S.	ch 5		TYPE '	Thermal System Insulation		
[꽃	6-03 E-03	E 0	Mar		NOTE			
. ₹	8	DATE OF SAMPLING						

Jamie Marshall

Jamie Marshall, B.S., Industrial Hygiene Associate

ANALYST NAME (PRINT)

ANALYST SIGNATURE

DATE ANALYZED

Polarized Light Microscopy Asbestos Analysis Test Method:

40 CFR Chapter I, Part 763, Subpart F, Appendix A, "Interim Method for determination of Asbestos in Bulk Insulation Samples" using Polarized Light Microscopy (PLM), US EPA 600/N:4-82-020 1982.

Lab Accreditation: AlHA PAT ID# 102334

Marshall Environmental Management, Inc.

1601 Southwest 890th Street, Suite A-100 Oklahoma City, OK 73159 Phone: (405) 616-0401 Fax: (405) 681-6753

PROJECT LOCATION						INVOICE TO			REPORT TO			
			Client	State of Oklahoma Department of Central Services Construction & Properties Division			State of Oklahoma Department of Environmental Quality Land Protection Division					
roje	ect			l Armory stos Inspection	Attention	Cindy Melton	Properties Division	Attention		Dustin Davidson	71412101	
		-1	2001	Industrial Parkway	Address	P.O. Box 53448		Addre	•66	P.O. Box 1677		
	ct Ad	mi c22		I, OK 74745-2330	<u> </u>	Oklahoma City, 405-5622-4805		Phone		Oklahoma City, 0 405-702-5115	OK 731	102
ont: hon				Thomas, City Clerk 86-76068	Phone Fax	405-5022-4805	-	Fax		405-702-3115		
ell			580-6	12-8070	Other	403-322-0031		Other				
nail			trfosh	ee63@hotmail.com	email	cindy melton(20dcs.state.ok.us	email		dustin.davidson	@deq.	.ok.gov
	Ĭ.,	_C		SAMPLE DESCRIPTION/LO	CATION	SAM	PLE COMPOSITION	<u></u>		NO ASBE		DETECTED
LAB LOG NUMBER	0016-030511-PLM-21	DATE OF SAMPLING	1	HVAC Thermal System Insu	lation	COLOR	Yellow	1			100%	Fibrous Glass
Z C	-PL	¥	5, 2011	Room 11		CONDITION	Good	<u> </u>			<u> </u>	
5	3511	SA	љ5,			ТҮРЕ	Thermal System Insulation	_			<u>.</u>	
3	5-03	[G	March			NOTE	<u> </u>		_			
\$	0016	AT	_			ļ		 			 	
\dashv		<u> </u>						+		270 - 000	OT OC	DETECTOR
إ	23	ğ		SAMPLE DESCRIPTION/LO	CATION		PLE COMPOSITION	-		NO ASBE		Styrofoam
	0016-030511-PLM-22	DATE OF SAMPLING	- -	Ceiling Tile		COLOR	White	-			100%	Styloloani
	1-PI	AM	March 5, 2011	Room 3		CONDITION	Good Miscellaneous		 			
LAB LOG NUMBER	3051)F.S	rch 2	North		TYPE NOTE	Iviiscenaneous	╂	_	·	ļ. —	
9	16-0	Œ	Ma			NOIE	<u> </u>	 	\vdash		-	
1	8	DA	i					 			1-	-
\dashv				SAMPLE DESCRIPTION/LO	CATION	SAMI	PLE COMPOSITION			NO ASBES	STOS I	DETECTED
LAB LOG NUMBER 0016-030511-PLM-23	-23	N		Ceiling Tile		COLOR	White				_	Styrofoam
	PLN	ÆL	110	Room 3		CONDITION	Good	1 .				
	511-	SAI	15,2	South		TYPE	Miscellaneous					
3	-030	OF	March 5, 2011			NOTE						
}	9100	DATE OF SAMPLING	-									
`		Ω					**************************************	┡				
,	4	وا		SAMPLE DESCRIPTION/LOG	CATION		PLE COMPOSITION	<u> </u>		NO ASBES		DETECTED
	.M.	IPLING	<u> </u>	Ceiling Tile		COLOR	White				100%	Styrofoam
	1-PI	AM	8	Room 3		CONDITION	Good	+				
	3051)FS.	March 5, 2011	Center		TYPE NOTE	Miscellaneous	-			-	
	0016-030511-PLM-24	DATE OF SAM	Σ			NOIE		-				
i	8	Δ	ł									
+			\dashv	SAMPLE DESCRIPTION/LOG	CATION	SAMI	PLE COMPOSITION	 		NO ASBES	TOS I	DETECTED
	£-25	JNI,	ŀ	Bedding-Tape		COLOR	White		-		93%	Calcareous Matcri
	PLN	MPL	<u>=</u>	Room 12		CONDITION	Good				7%	Cellulose
	511-	SA	March 5, 2011	North		ТҮРЕ	Miscellaneous					
	-030	OF	farct			NOTE						
WHICH DOT TO	0016-030511-PLM-25	DATE OF SAMPLING	~									
		Ď,						<u> </u>				
			Ja	mie Marshall	Jamie 1	Marshall, B.S., In	adustrial Hygiene Associate			March 1	15, 201	1
ANALYST NAME (PRINT)						SIGNATURE	 		DATE AN	IALY7	ŒD	
		ght Mi	crosco	py Asbestos Analysis Test Method: 63, Subpart F, Appendix A, "Interim		·		-				ccreditation:

Marshall Environmental Management, Inc.

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marshen @swbell.net

		PF	ROJE	ECT LOCATION		INVO	DICE TO			REPO	RT 7	го
Project Id. 0022-AB-030511			Client	State of Oklaho Department of O	Central Services	Client			epartment of Environmental Quality			
Project Idabel Armory		-	<u></u>		Properties Division			Land Protection I	Divisio	n		
roje				stos Inspection	Attention	Cindy Melton		Attent	ion	Dustin Davidson		
roie	ct Ad	dress		Industrial Parkway	Address	P.O. Box 53448		Addre	SS	P.O. Box 1677	NZ 222	103
				el, OK 74745-2330		Oklahoma City, 405-5622-4805	OK 73102	Phone		Oklahoma City, 0 405-702-5115	JK /3	102
ont				Thomas, City Clerk 286-76068	Phone Fax	405-522-0051		Fax		403-702-3113		
hone Cell	e			512-8070	Other	403-322-0031		Other				
mail				nce63@hotmail.com	email	cindy melton@	dcs.state.ok.us	email		dustin.davidson	@deo	.ok.gov
						T				~		DETECTED
~	يو	ုပ္င		SAMPLE DESCRIPTION/LO	CATION		PLE COMPOSITION	 -		NU ASBE		
BE	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	ן בו	_	Bedding-Mud	_	COLOR	White				1009	6 Cellulose
<u> </u>	Į.	¥	2011	Room 12	- <u></u>	CONDITION	Good				ļ	-
LAB LOG NUMBER	511	\S.	h 5,	North		TYPE	Miscellaneous					
\$	-030	ō	March 5,			NOTE						
₹	0016-030511-PLM-26	DATE OF SAMPLING	~									
-	0	À	ĺ		-							
╗		7.5		SAMPLE DESCRIPTION/LO	CATION	SAMI	PLE COMPOSITION			NO ASBES	STOS	DETECTED
LAB LOG NUMBER	0016-030511-PLM-27	Įž		Drywall		COLOR	White				100%	Cellulose
	PLN	₽	March 5, 2011	Room 12		CONDITION	Good					
Z	111	S S	5,2	North		TYPE	Surfacing					
۶	305	DATE OF SAMPLING	ırch			NOTE		 			 	
<u> </u>	16-0		M				<u> </u>	\dashv				1
≦	8	DA.	-					-			 	-
-				CARADI E DECCOMPIONA O	CATION	CAMI	PLE COMPOSITION	+		NO ASRES	TOS	DETECTED
<u> </u>	88	Ŋ.		SAMPLE DESCRIPTION/LO	CATION	COLOR	White	+ -		NO ABBE	_	Calcareous Materia
0016-030511-PLM-28	Σ	PLI	=	Bedding-Tape								Cellulose
	1- F-	W	, 20	Room 12		CONDITION	Good				179	Cellulosc
<u>ق</u>	051	DATE OF SAMPLING	ch 5	South		TYPE	Miscellaneous					
<u> </u>	5-03		March 5, 2011	····		NOTE						
4	901	ΑT					- · · · · · · · · · · · · · · · · · · ·					
		I		<u></u>								
ا ر	٦	ی		SAMPLE DESCRIPTION/LO	CATION	SAME	LE COMPOSITION	1 ,		NO ASBES		DETECTED
	4-2	SAMPLING		Bedding-Mud		COLOR	White				100%	Cellulose
털	Ë	₩.	5, 2011	Room 12		CONDITION	Good					
GNUMBER	511		.5,	South		TYPE	Miscellaneous					
	30	Ö	March			NOTE						
TABLO	0016-030511-PLM-29	DATE OF	≥									
4	ا ۳	DA	Ì	,								1
-			1	SAMPLE DESCRIPTION/LO	CATION	SAMP	LE COMPOSITION	 	_	NO ASBES	TOS	DETECTED
1	၉	2	ŀ	Drywall		COLOR	White				100%	Calcareous Materia
2	፮	됩	뒫	Room 12		CONDITION	Good	 				
LAB LOG NUMBER	Ϊ	Y.	5,2	South		TYPE	Surfacing	+				
3	0016-030511-PLM-30	FS	March 5, 2011	South		NOTE		+ +				
4	[[<u> </u>	ž	. .		NOTE		1-1				
5	8	DATE OF SAMPLING	}		$\overline{}$			1				
						<u></u>						
			Ja	mie Marshall	LA	W	WM			March 1	5, 201	1
					Janglie 1	Marshall, B.S., In	dustrial Hygiene Associate					
		ΔN	ALV	ST NAME (PRINT)	<u> </u>	ANALYST	SIGNATURE		DATE ANALYZED			
lariz	ed Lig			py Asbestos Analysis Test Method:		letermination of A						ccreditation:

Marshall Environmental Management, Inc.

1601 Southwest 890th Street, Suite A-100 Oklahoma City, OK 73159 Phone: (405) 616-0401 Fax: (405) 681-6753 marshenv@swbell.net

PR	OJECT LOCATION		INVOICE TO	REPORT TO			
Project Id.	0022-AB-030511		State of Oklahoma		State of Oklahoma		
roject iu.	0022-715-030311	Client	Department of Central Services	Client	Department of Environmental Quality		
D ! 4	Idabel Armory		Construction & Properties Division		Land Protection Division		
Project	Asbestos Inspection	Attention	Cindy Melton	Attention	Dustin Davidson		
	2001 Industrial Parkway		P.O. Box 53448	4.4.4	P.O. Box 1677		
Project Address	Idabel, OK 74745-2330	Address	Oklahoma City, OK 73102	Address	Oklahoma City, OK 73102		
Contact	Tina Thomas, City Clerk	Phone	405-5622-4805	Phone	405-702-5115		
Phone	580-286-76068	Fax	405-522-0051	Fax			
Cell	580-612-8070	Other		Other			
email	trfoshee63@hotmail.com	email	cindy melton@dcs.state.ok.us	email	dustin.davidson@deq.ok.gov		

				SAMPLE DESCRIPTION/LOCATION	SAME	PLE COMPOSITION	NO ASBES	TOS DETECTED
ER	f-31	N,		Bedding-Tape	COLOR	White		93% Calcareous Material
JME	PLN	MPI	March 5, 2011	Room 11	CONDITION	Good		7% Cellulose
<u>Z</u>	LAB LOG NUMBER 0016-030511-PLM-31	SA	15,	North	TYPE	Miscellaneous		
ļš	-030	OF	farci	1. 1011	NOTE	<u> </u>		
LAB LOG NUMBER	016	DATE OF SAMPLING	2	,				
-	0	ă			1			
	٥,	t t		SAMPLE DESCRIPTION/LOCATION	SAMP	LE COMPOSITION	NO ASBES	TOS DETECTED
	M-32	Ĭ		Bedding-Mud	COLOR	White		100% Cellulose
Mo	-PL	1	March 5, 2011	Room 11	CONDITION	Good		
Z	511	SA	h 5, :	North	TYPE	Miscellaneous		
🖺	-030	jo l	Aarc		NOTE			
LAB LOG NUMBER	0016-030511-PLM-32	DATE OF SAMPLING	4					
		α						
	ی س		Ī	SAMPLE DESCRIPTION/LOCATION	SAMP	LE COMPOSITION	NO ASBES	FOS DETECTED
BEF	O016-030511-PLM-33			Dry Wall	COLOR	White		100% Calcareous Material
M		MF.	201	Room 11	CONDITION	Good		
Z	511	, SA	h 5,	North	ТҮРЕ	Surfacing		
01	9	Ö	March 5, 2011		NOTE			
AB.	2016	DATE OF SAMPLING				~		
		_						
~	4	ا بن	. !	SAMPLE DESCRIPTION/LOCATION	SAMP	LE COMPOSITION		OS DETECTED
	₹-3		_	hot Water Thermal System Insulation	COLOR	Yellow		100% Fibrous Glass
	뒥	B	201	Room 16	CONDITION	Good		
2	151	YS.	й5,		TYPE	Miscellaneous		•
3	0016-030511-PLM-34	<u> </u>	March 5, 2011		NOTE			
LAB LOG NUMBER	ğ	DATE OF SAMPLING	<i>^</i>			<u> </u>		
	ļ	н						
ایم	ر ا	ا ي		SAMPLE DESCRIPTION/LOCATION		LE COMPOSITION		OS DETECTED
13E	Ψ̈́	Ţ,	_	hot Water Thermal System Insulation	COLOR	Yellow		100% Fibrous Glass
<u> </u>	1 <u>-</u> F	W	8	Room 19	CONDITION	Good		
LAB LOG NUMBER	0016-030511-PLM-35	F S.	March 5, 2011		ТҮРЕ	Thermal System Insulation		
M	6-03	EO	Mar		NOTE	<u> </u>	<u> </u>	
F	ē	DATE OF SAMPLING						
				\sim		-		

March 15, 2011 Jamie Marshall arnie Marshall, B.S., Industrial Hygiene Associate DATE ANALYZED ANALYST SIGNATURE ANALYST NAME (PRINT) Polarized Light Microscopy Asbestos Analysis Test Method:

40 CFR Chapter I, Part 763, Subpart F, Appendix A, "Interim Method for determination of Asbestos in Bulk Insulation Samples" using Polarized Light Microscopy (PLM), US EPA 600/M4-82-020 1982.

Lab Accreditation: AIHA PAT ID# 102334

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marshenv@swbell.net

		P	ROJ	ECT LOCATION	1	INV	OICE TO			REP	ORT 7	LO .
Proj	Idabel Armory			Client		Central Services	Clien	t	State of Oklahoma Department of Environmental Quality Land Protection Division			
Proj						Properties Division						
Asbestos Inspection			Attention	Cindy Melton		Atten	tion	Dustin Davidson				
Proje	ect Ac	idress		Industrial Parkway el, OK 74745-2330	Address	P.O. Box 5344 Oklahoma City		Addre	ess	P.O. Box 1677 Oklahoma City,	OF 73	100
Cont	act			Thomas, City Clerk	Phone	405-5622-4805		Phone		405-702-5115	OK 73	102
hor				286-76068	Fax	405-522-0051		Fax		100 100 0110		
Cell				612-8070	Other			Other				7 1-1
mai	1		trfos	hee63@hotmail.com	email	cindy_melton	@dcs.state.ok.us	email		dustin.davidso	n@deq	.ok.gov
		(5		SAMPLE DESCRIPTION/I	OCATION	SAM	PLE COMPOSITION			NO ASBI	ESTOS	DETECTED
LOG NUMBER	1-36	Įğ		Hot Water Thermal System	Insulation	COLOR	Yellow				100%	Fibrous Glass
\$	Ξ	₩	March 5, 2011	Room 3		CONDITION	Good	t			1	
Z	1 1	N. S.	5,2			TYPE	Thermal System Insulation	┼			+	
Š	300	P.	l ch	-		NOTE	Thornto System insulation	┼			 	
IABI	0016-030511-PLM-36	DATE OF SAMPLING	Ž			HOLE		+		••		
ľ	8	DA				-		 			+	
		 	-	SAMPLE DESCRIPTION/L	OCATION	SAM	PLE COMPOSITION	 	L	NO ASDI	STOS	DETECTED
ER	0016-030511-PLM-37	S		Tan 12x12 Floor Til		COLOR	Tan/Beige	1-		IIO AGDI		Vinyl Aggregate
9	Ţ	DATE OF SAMPLING	E	Room 2		CONDITION	Good	 -			100%	Villyi Agglegate
2	11-1		March 5, 2011	Koom 2		TYPE	Miscellaneous	<u> </u>			ļ —	
LAB LOG NUMBER	305		lg.				IVIISCENTATICOUS				+	
BI	16-0		Σ			NOTE	,				 -	ļ .
4	8	DA.									 -	<u> </u>
+			-	SAMPLE DESCRIPTION/L	OCATION	SAM	PLE COMPOSITION			NO 4 COP	OTTOO I	NOTE CITED
LAB LOG NUMBER	0016-030511-PLM-38	DATE OF SAMPLING	li	Yellow Mastic	OCATION	COLOR	Yellow	 		NU ASBE		DETECTED
		H	1 1				-	 -			100%	Adhesive
		Ā	March 5, 2011	Room 2		CONDITION	Good				<u> </u>	ļ
		E S	l d	South		ТҮРЕ	Miscellaneous				 -	·
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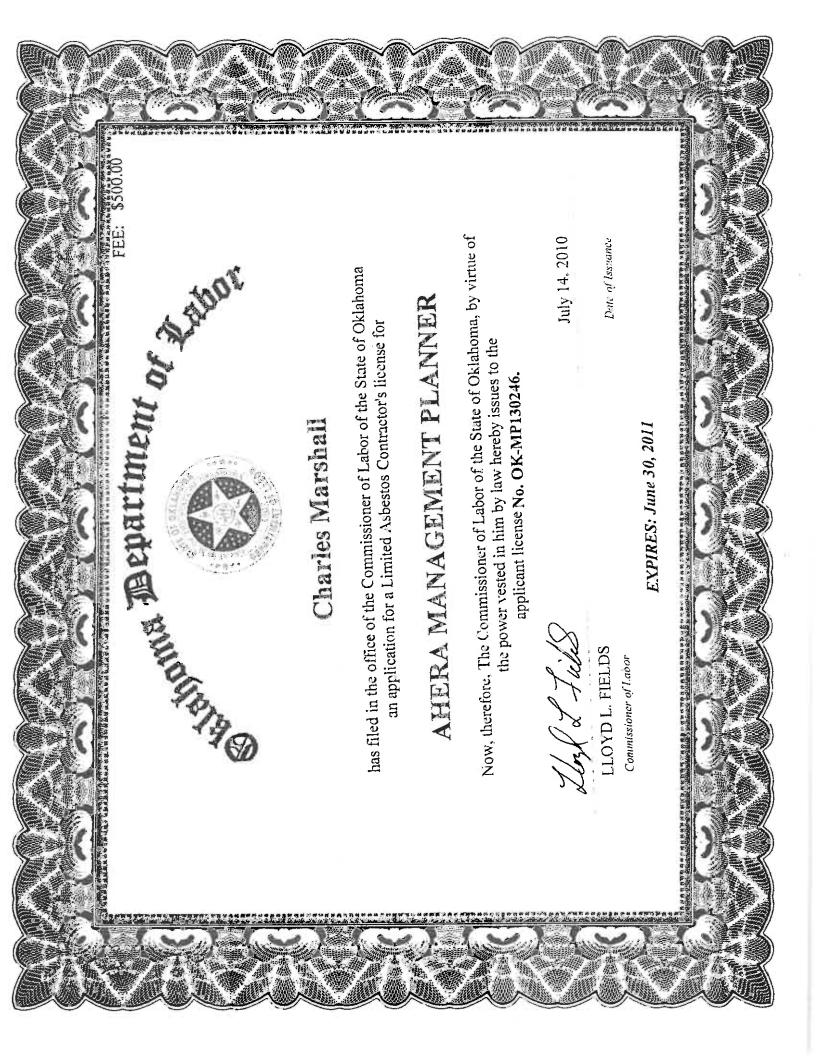
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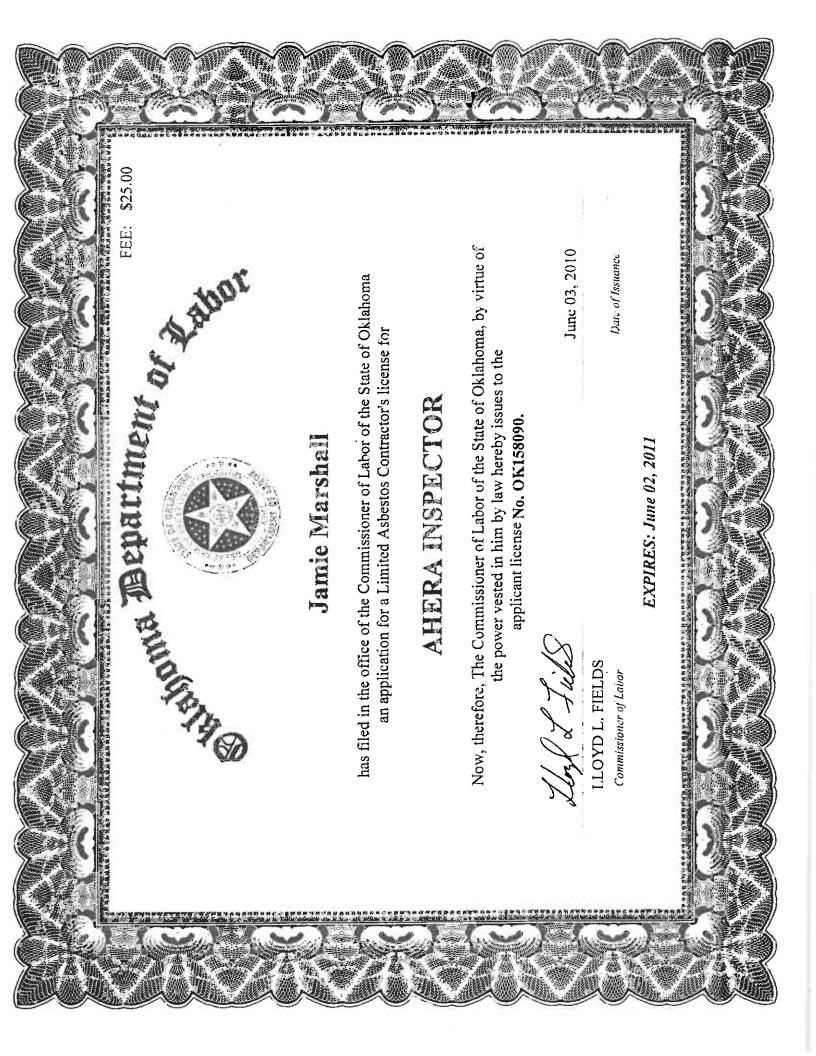
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				Attention	P.O. Box 53448			P.O. Box 1677			
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t				Phone	405-5622-4805		Phone	405-702-5115			
		580-2	86-76068	Fax	405-522-0051		Fax				
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Jamie Marshall	Jamie Marshall, B.S., Industrial Hygiene Associate	March 15, 2011
ANALYST NAME (PRINT)	ANALYST SIGNATURE	DATE ANALYZED
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Polarized Light Microscopy Asbestos Analysis Test Method:
40 CFR Chapter I, Part 763, Subpart F, Appendix A, "Interim Method for determination of Asbestos in Bulk Insulation Samples" using Polarized Light Microscopy (PLM), US EPA 600/M4-82-020 1982.

Lab Accreditation:
AIHA PAT ID# 102334





SCOPES OF WORK

SCOPE OF WORK FOR REMEDIATION OF LEAD

Lead Remediation in Idabel Armory Addenda #1 – Summary of Changes

Clarifications and Changes -

- 1. All Items in IFR shall be cleaned, removed and properly disposed.
- 2. Peg board on south wall of IFR shall be cleaned, removed and properly disposed.
- 3. All boards on ceiling shall be cleaned, removed, and properly disposed.
- 4. Glue on walls and ceiling shall be scraped smooth with wall prior to painting.
- 5. Once surfaces are below 200 ug/SF in the IFR, floors shall be sealed with KM-669 Acrylic Sealer and walls and ceiling shall be painted with a neutral colored primer and encapsulated with DEQ approved elastomeric encapsulant. A list of DEQ approved Lead-Based Paint Encapsulants is located in Attachment 3 of the Scope of Work.
- 6. The items located in the floor of the Weight Room (Room 23) shall have dust removed and then be moved to a location on the Drill Floor that already had the floors cleaned.

STATEMENT OF WORK

For

Remediation of Lead Contamination at the Idabel Armory

The Oklahoma Department of Environmental Quality (DEQ) is requesting bids from qualified bidders for remediation services at a former National Guard armory located in Idabel, Oklahoma. This statement of work (SOW) describes the remediation of lead contaminated dust throughout the building. This work must be performed to provide for safe re-use of the facility with unrestricted use such as storage areas, classrooms, or office space. A mandatory site visit and walk through will be held to give a better understanding of the site. A floor plan map of the Idabel Armory is attached for review (Attachment 1).

The building is located at 2001 Industrial Parkway, Idabel, Oklahoma. The building <u>does</u> have available water and electricity to use during remediation.

SPECIAL PROVISIONS:

- 1. Work Schedule: The Contractor shall schedule all work to be complete within thirty (30) calendar days after date of the written "Notice to Proceed".
 - a. A pre-construction meeting shall be held at the site after the Notice to Proceed date to review Scope of Work and answer any questions the contractor may have.
 - b. All on-site work shall be completed by the Contractor five (5) days prior to the scheduled contract completion date, with the remaining five (5) days utilized for final inspection and correction of all deficiencies.
- 2. Conditions of Work: The following conditions of work will apply in accomplishment of this contract:
 - a. All work shall be performed in accordance with all applicable State and Federal regulations.
 - b. The contractor shall perform this work in such a manner as to cause a minimum of interruption to normal work being performed in the contract area.
 - c. Coordination of work areas shall be scheduled with DEO.
 - d. Disposal of Removed Materials: All materials removed by the Contractor under this contract shall be disposed of in accordance with State and Federal regulations. DEQ will sign as generator, if necessary.

CONTRACTOR SHALL:

- Attend mandatory pre-bid meeting and site walk through;
- Posses a current lead-based paint firm license and have a certified lead-based paint supervisor in order to perform lead-based paint abatement;
- Follow all appropriate OSHA requirements;
- Read Guidelines for Rehabilitation and Conversion of Indoor Firing Ranges, November 3, 2006,
 Departments of the Army and Air Force, National Guard Bureau (Attachment 5), and refer to this document as a reference and guideline for remediating IFR lead contamination.
- Follow OSHA Lead in Construction Interim Final Standard (29 CFR 1926.62) for lead-based paint abatement, indoor firing range remediation, and lead dust remediation;

Submit With Bid:

- · Copy of lead-based paint firm license;
- Copy of lead-based paint supervisor license;
- Three references with name, type of project, phone number, and location of similar work in the last three years.

Submit After Contract Award:

A Work Plan with planned activities and schedule to DEQ for approval;

SEQUENCE OF EVENTS

The remediation of the building shall be as follows:

- 1. First The Indoor Firing Range (IFR) shall be cleaned.
- 2. Second The floors of the entire building shall be cleaned.
- 3. Third DEQ shall be contacted to perform third party confirmation sampling to confirm indoor firing range (IFR) and all floors have been appropriately remediated.

LEAD DUST REMEDIATION INSTRUCTIONS

See Lead-Based Paint Inspection and Settled Dust Sampling Report for details (Attachment 4)

1. Indoor Firing Range (IFR)

The IFR is a long narrow room where the Oklahoma Military Department would target practice with weapons. The IFR is to be cleaned by removal of all lead contaminated materials, including removal of all removable acoustical tiles and lead contaminated dust and other lead containing particulates on the floor, walls, and ceiling of the IFR.

• Pre-remediation Preparation

- o To ensure cross contamination does not occur, use engineering controls such as:
 - Sealing openings with 6 mil poly sheeting to contain dust inside IFR;
 - Covering floor of area outside IFR with 6 mil poly sheeting to make sure not to track lead dust into clean areas;
 - Securing IFR at the end of the work day. At no time shall the IFR be accessible for unauthorized entry without the contractor present;
- When inside IFR wear appropriate personal protective equipment (See Attachment 2).

Water Removal

- o All wash water from the building shall be filtered through a 1 micron filter and stored on site in containers;
- o The wash water will be sampled for total lead and total phosphorus; Total lead shall be run by ICP and total phosphorus shall be run by EPA Method 365.3;
- o Sample results shall be submitted to DEQ to determine if wash water can be disposed at the local Waste Water Treatment Facility;
- o Wash water shall be disposed appropriately.

Pre-remediation Removal

- o Decontaminate all items to be removed from the IFR, wrap in poly sheeting, and properly dispose.
 - Items such as acoustical tiles or other porous materials shall be HEPA vacuumed, washed, and sampled for TCLP. Acoustical tile will have 3 five part composite samples taken. All other materials shall have 1 five part composite sample taken of each material. If samples pass TCLP then properly dispose. If any samples fail TCLP, dispose of that item as hazardous waste.

Remediation

- HEPA vacuum and wet wash walls, floor, ceiling, vent fan, and other structures that are contaminated;
- o If acoustical tile cannot be removed from the ceiling, tiles shall be HEPA vacuumed, wet washed, and then sealed with DEQ approved lead-based paint encapsulant (Attachment 3);
- Dispose lead contaminated dust, wash water, and appropriate cleaning materials as hazardous waste or as appropriate (See section 3. Disposal of Materials for detailed information).

• Post-remediation

- o All post-remediation sampling shall be performed by DEQ. The Contractor shall provide DEQ a minimum of five (5) calendar days prior notice to perform sampling. See Section C (Confirmation and Clearance Sampling) for contact information;
- o Post remediation sampling is required to confirm the IFR has been remediated to 200 micrograms per square foot (ug/SF);
 - Areas above 200 ug/SF shall be re-cleaned and re-tested until results are at or below 200 ug/SF;
- o If surfaces of the IFR cannot be cleaned and DEQ determines that these surfaces contain imbedded lead fragments, construction grout shall be used over these surfaces.
 - Surfaces shall be thoroughly cleaned:
 - BASF Acryl 60 or DEQ approved equivalent shall be applied to surfaces according to manufacturer's specifications. Specifications are attached (Attachment 4);

- BASF Construction Grout or DEQ approved equivalent shall be applied (sprayed or troweled) to surfaces according to manufacturer's specifications. Specifications are attached (Attachment 3).
- Once the IFR has been remediated to 200 ug/SF, seal the floor, ceiling, and walls with appropriate sealant:
 - Floor, ceiling, and walls will be sealed with KM-669 Acrylic Sealer or equivalent. Specifications attached (Attachment 3);
 - IFR area will have forced air applied to room 4 days after sealer is applied. This will be done to remove all vapors from the area;
- After surfaces are sealed, the Contractor shall provide DEQ a minimum of five (5)
 calendar days prior notice to perform post remediation wipe sampling to confirm
 the IFR has been remediated to 40 ug/SF;
- Areas above 40 ug/SF shall be cleaned to remove lead dust from sealed surface.
 Once cleaned, the area shall be retested to confirm area has been remediated to 40 ug/SF;
- All re-testing of previously failed areas shall be performed by DEQ. Contractor shall provide DEQ a minimum of five (5) calendar day's prior notice to perform sampling.
- O The chart below summarizes the clearance numbers for the indoor firing range.

 All lead wipe samples must be at or below these numbers in order for the room to be considered clean.

Post Remediation	Post Sealant
200 ug/SF	40 ug/SF

2. Remaining Building

Lead Dust Remediation (See Attachment 4)

- O Surfaces above the floors such as walls, shelves, etc. may have accumulated dust that has settled. This accumulation shall be removed prior to the cleaning of the floors. This shall be done to prevent recontamination of the floors after they are cleaned.
- o Floors of the entire building shall require lead dust remediation;
 - Remove dust from all equipment, shelving, trash, etc, and remove these items from room before remediation begins;
 - Remove dust from all carpet, remove carpet from rooms, and dispose of all carpet as non-hazardous waste before lead dust remediation of floor begins:
 - Dispose any materials, determined by the DEQ to be trash, as non-hazardous waste;
 - HEPA vacuum and wet wash floors of entire building;
 - o Lead levels on the floor are high in many areas of the building and lead contaminated dust may be ground into the pores and cracks of the concrete. It may be necessary to clean floors several times or use alternate cleaning methods after HEPA vacuuming and wet washing to remove the lead dust from the

concrete and get the lead levels down to 40 micrograms per square foot (ug/SF).

- Contact DEQ to perform post remediation wipe sampling to confirm that room floors with lead contamination have been appropriately remediated to 40 micrograms per square foot (ug/SF). See Section C. (Confirmation and Clearance Sampling) for additional information:
- Areas above 40 ug/SF shall be re-cleaned and re-tested until results are at or below 40 ug/SF;
- Lead dust and appropriate cleaning materials shall be disposed as appropriate.
- Wash Water Disposal
 - o All wash water from the building shall be filtered through a 1 micron filter and stored on site in containers:
 - o The wash water will be sampled for total lead and total phosphorus; Total lead shall be run by ICP and total phosphorus shall be run by EPA Method 365.3;
 - Sample results shall be submitted to DEQ to determine if wash water can be disposed at the local Waste Water Treatment Facility;
 - o Wash water shall be disposed appropriately.

3. Disposal of Materials

Hazardous Waste

- Lead contaminated sand shall be disposed as hazardous waste;
- Lead contaminated dust from the cleaning of the IFR and remaining building shall be disposed as hazardous waste;
- Wash water filters shall be disposed as hazardous waste;
- Mop heads, towels, brushes, wipes, and other cleaning supplies shall be disposed as hazardous waste;

Other

- Poly Sheeting shall be disposed as appropriate. If contractor plans to dispose as non-hazardous waste, best management practices such as vacuuming, washing, wiping down, or cleaning poly sheeting prior to disposal shall be implemented.
- Personal protective equipment (gloves, tyvec, face masks, etc.) shall be disposed as appropriate.

4. Confirmation and Clearance Sampling

- Contractor may use his own lab to check progress of remediation, however all DEQ decisions shall be based on analytical data from samples taken by DEQ.
- DEQ will be responsible for taking all post remediation samples.
- DEQ shall be notified five (5) days prior to each sampling event.

• Contact Information:

DEQ

Contact: Dustin Davidson Phone: (405) 702-5115.

- The third-party sampling shall not be included in the contractors base bid;
- All post remediation sampling done outside the indoor firing range will be performed after all initial abatement, remediation, and cleaning is complete.
- The chart below summarizes the clearance numbers for the building. All lead wipe samples shall be at or below these numbers in order for these areas to be considered clean.

IFR Post Remediation	IFR Post Sealant	Room Floors
200 ug/SF	40 ug/SF	40 ug/SF

5. FINAL REPORT

- Write final report and submit to DEQ;
- Final report shall include:
 - o A detailed summary of work including any warranties and data;
 - o copy of post remediation sampling report;
 - o waste manifests (if any); and
 - o photo documentation of work;
 - Photo documentation of work will have color digital photos with captions describing photo;
- Final report will be submitted in hard copy and electronically on disc.

OWNER REPRESTATIVE

Owner's Representative:

Dustin Davidson

Oklahoma Department of Environmental Quality

Land Protection Division

707 N. Robinson

Oklahoma City, OK 73102

Phone Numbers:

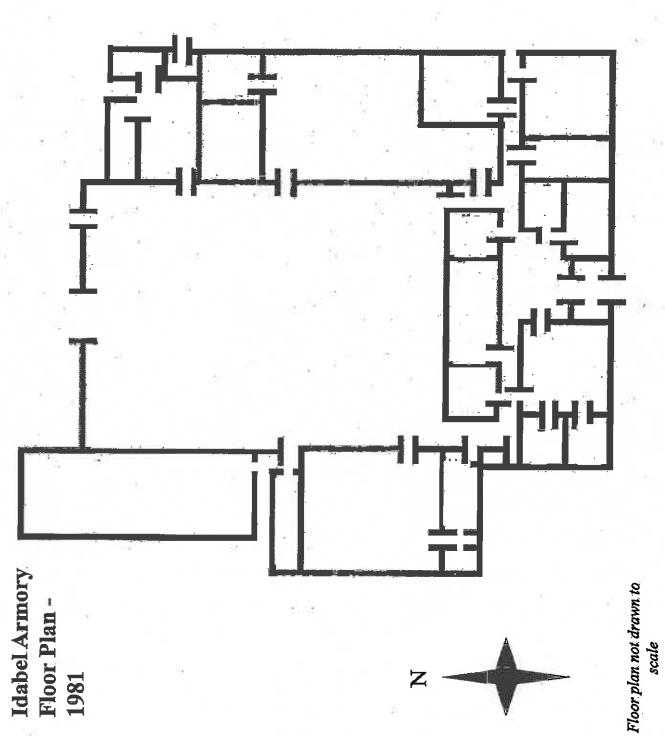
(405) 702-5115 (Office)

(405) 702-5101 (Fax)

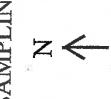
E-Mail: Dustin.Davidson@deq.ok.gov

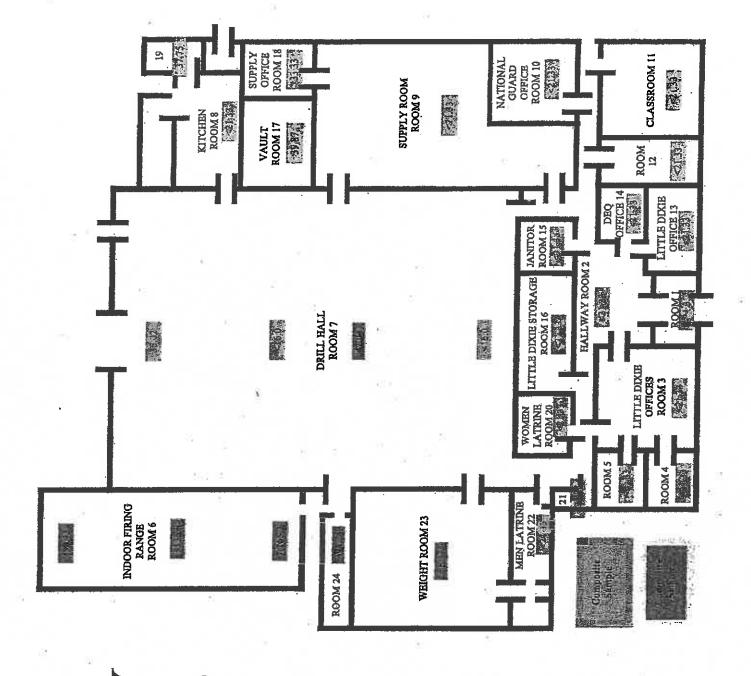
ATTACHMENT 1

Floor Plan Map



SURFACE DUST SAMPLING





ATTACHMENT 2

Health & Safety Aspects to Consider

Health & Safety Aspects to Consider

Project Goal: To ensure that former National Guard Armories are free of lead dust.

Specifically, indoor firing ranges (IFR's) and other areas that contain lead contamination.

Please Note: the following information is from the Departments of the Army and the Air Force, National Guard Bureau, Guidelines and Procedures for Rehabilitation and Conversion of Indoor Firing Ranges (Attachment 4).

Health and Medical Aspects

Health Effects

29 Code of Federal Regulations (CFR) 1910.1025, Appendix A, identifies lead as a highly toxic metal. Elemental lead is indestructible and common in the environment. Lead can enter the body by inhalation (breathing) or ingestion (eating). In addition, lead is a cumulative poison. It accumulates in the blood, bones, and organs, including the kidneys, brain and liver. Effects include nervous and reproductive system disorders, delays in neurological and physical development, cognitive and behavioral changes, and hypertension. Symptoms include loss of appetite, difficulty sleeping, irritability, fatigue, headache, and inability to concentrate. It can stay in the bones for decades. Worker awareness and training are important to ensure that employees can recognize the symptoms of exposure and get prompt medical attention.

Medical Surveillance for occupational Exposure to Lead

- a. 29 CFR 1910.1025(j)(i-ii), Medical Surveillance General: "The employer shall institute a medical surveillance program for all employees who are or may be exposed above the action level for more than 30 days per year. The employer shall assure all medical examinations and procedures are performed by or under the supervision of a licensed physician."
- b. The DOD 6055.5-M, Occupational Medical Surveillance Manual Table 2-I lists medical surveillance criteria for employees "who are or may be exposed above the action level for 30 days/year."

Personal Protective Equipment

29 CFR 1910.1025(f)(2), for housekeeping and rehabilitation the employer shall select respirators from among those approved for protection against dust, fume, and mist by the National Institute for Occupational Safety and Health (NIOSH), under the provision of 42 CFR part 84. The employer shall institute a respiratory protection program in accordance with 29 CFR 1910.134(b), (d), (e), and (f). As a minimum, personnel conducting the decontamination of the range shall be provided with the following personal protective equipment.

- a. Under 29 CFR 1910.1025 (g). For employees engaged in range rehabilitation and/or range conversion, the employer shall provide at no cost to the employee, and ensure that the employee uses appropriate protective work clothing and equipment such as, but not limited to:
 - (1) Protective coveralls with hood and shoe covers or disposable Tyvek TM full body suit.
 - (2) Disposable rubber gloves; and disposable shoe coverlets (If necessary).
 - (3) Full-face air purifying respirator with P-100 cartridges.
 - b. The employer shall provide the clothing required in a clean and dry condition at least daily to employees engaged in the conversion of IFRs.
 - c. The employer shall provide for the cleaning, laundering, or disposal of used or contaminated protective clothing and equipment.
 - d. The employer shall assure that all protective clothing is removed at the completion of a work shift only in areas designated for that purpose (Change Areas or Change Rooms).
 - e. The employer shall ensure that contaminated protective clothing that is to be cleaned, laundered, or disposed of, is placed in a closed container in the change area that seals sufficiently enough to prevent dispersion of lead dust.
 - f. The employer shall further inform in writing any person who cleans or launders protective clothing or equipment of the potentially harmful effects of exposure to lead.
 - g. The employer shall ensure that the containers of contaminated protective clothing and equipment are labeled as follows: <u>CAUTION: CLOTHING</u>

 CONTAMINATED WITH LEAD. DO NOT REMOVE DUST BY BLOWING OR SHAKING. DISPOSE OF LEAD CONTAMINATED WASH WATER IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, OR FEDERAL REGULATIONS.

Education, Maintenance, Cleaning and Conversion

Worker Education

a. 29 CFR 1910.1025, Appendix 13, requires an information and training program for all employees exposed to lead above the action level or who may suffer skin or eye irritation from lead. The program must inform the employees of the specific hazards associated with their work environment, protective measures which can be taken, the danger of lead to their bodies (including their reproductive systems), and their rights under the standard. In addition you must make readily available to all employees, including those exposed below the action level, a copy of this standard and its appendices. This training program shall be repeated annually for personnel in range cleanup operations.

b. The supervisor shall ensure that each individual employee is informed of the following:

- (1) The content of the standard and its appendices.
- (2) The specific nature of operations that could result in exposure to lead above the action level.
- (3) The purpose, proper selection, fitting, use, and limitations of respirators.
- (4) The purpose and a description of medical surveillance program.
- (5) Eating and drinking are prohibited in lead contaminated areas.
- (6) Smoking and smoking materials shall not be permitted in contaminated areas.
- (7) Employees must wash their hands and other exposed skin whenever they leave the work area.
- (8) The engineering controls and work practices associated with the individual's job assignment.
- (9) The contents of any compliance plan in effect.
- (10) Instructions to employees that chelating agents should not routinely be used to remove lead from their bodies and should not be used at all except under the direction of a licensed physician.

REFERENCES

Section 1 Required Publications

There are no entries in this section

Section II Related Publications

ASTM E1792-03

Standard Specification for Wipe Sampling Materials for Lead in Surface Dust

AR 11-34

The Respiratory Protection Program

AR 40-5

Preventive Medicine

DODI 6055.5

Industrial Hygiene and Occupational Health

DOD 6055.5-M

Occupational Medical Surveillance Manual

29 CFR. Part 1910

Occupational Safety and Health Administration, Department of Labor

National Institute for Occupational Safety and Health (NIOSH) 76-130

Lead Exposure and Design Considerations for Indoor Firing Ranges, Department of Health, Education and Welfare

NGR 385-15

Policy and Responsibilities for Inspection, Evaluation and Operation Army National Guard National Guard Indoor Firing Ranges (IFRs).

NGR 415-5

Army National Guard Military Construction Program Development and Execution

NGR 420-10

Construction and Facilities Management Office Operations

Technical Manual, 5th Edition

Occupational Safety and Health Administration, Department of Labor Section III

ATTACHMENT 3

DEQ Approved Lead-Based Paint Encapsulants List

Sealant and Encapsulant Specifications

Lead-Based Paint Encapsulants approved by DEQ

Encapsulant Manufacturer	Encapsulant Product(s)
Coronado Paint Company	LEAD BLOCK TM
Dumond Chemicals	LEAD STOP TM
Dynacraft Industries, Inc.	Back to Nature Protect-A-Coat
Encap Systems Corporation	EncapSeal TM I
Encap Systems Corporation	EncapSeal TM II
Fiberlock Technologies, Inc.	Child GUARD interior/exterior
Fiberlock Technologies, Inc.	L-B-C® Type III
Global Encasement, Inc.	LeadLock [™]
Grace Construction Products	Lead Seal®
Grace Construction Products	Barrier Coat® II
Insl-x Products Corporation	INSL-CAP TM
SAFE Encasement Systems	SE-120 Protective Skin
Specification Chemicals, Inc.	NU-WAL® #2500 Coating

KELLY-MOORE PAINTS INDUSTRIAL COATINGS HIGH PERFORMANCE SYSTEMS

KM-669

Acrylic Sealer

THIS PRODUCT MAY NOT BE AVAILABLE IN SOME AREAS DUE TO VOC REGULATIONS

Contact your Kelly-Moore representative for more information

Product Description

A one component, solvent borne, high gloss, clear acrylic sealer designed for use on concrete, masonry, and brick. Dustproofs concrete by penetrating surface pores leaving a tough, durable film.

Performance Features

- Non-Yellowing
- Excellent Adhesion to Concrete
- Good Water & Salt Chemical Resistance
- Good Abrasion Resistance
- Can be Sprayed, Padded or Rolled

Product Specifications

Resin Type	Acrylic
Color Range	Clear
Finish	High Glass
Drying Time	8 hours to recoat
Practical Coverage	250-459 Sq. Ft. / Gallon
Recommended Dry Film Thickness	1.2 < 2.2 mils per coet
Solids By Volume	35%
Sizes	Five gallon palls
V.O.C.	:560 Grams per liter
Clean Up	KM-S-74 or KM-SA-50

Surface Preparation

WARNING! If you scrape, sand or remove old paint from any surface, you may release lead dust LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH-approved respirator to control lead exposure. Carefully clean up with a west mop or HEPA vacuum. Before you start, find out how to protect yourself and your family by contacting the U.S. EPA/Lead information Holline at 1-800-424-LEAD (5323) or log on to www.epa.gov/lead.

Surface Preparation:

Remove all dirt grease, oil, soil, chemical contaminants, and other matter. Allow surface to dry.

Application Procedure:

When mixing, use an EXPLOSION PROOF SLOW SPEED DRILL WITH A JIFFY MIXER. Apply a uniform wet film, do not puddle material. Do not cover more area than can be worked in 10 minutes due to fast dry time. When spraying, use a low pressure machine. Two coats may be necessary depending on porosity or type of service.

For safety and product curing, proper ventilation is necessary throughout application and cure,

Dry Times: 8 hours

See Precautions and Limited Warranty next page

KM-669 (cont.)

Precautions

KM-669 is Flammable. KM-669 contains flammable solvents. Keep away from all sources of ignition during mixing, application, and cure. In confined areas, provide adequate forced air ventilation. The use of goggles, fresh air masks or NIOSH approved respirators, protective skin cream and protective clothing is a recommended standard practice when spraying coalings

Proper Disposal

For proper disposal of excess material, please contact your local city or county waste management agency.

Limited Warranty: The statements made on this buildin, product labels or by any of our agents concerning this material are given for information only. They are believed to be true and accurate and are intended to provide a guide to approved construction practices and materials. As workmanship, weather, construction equipment, quality of other materials and other variables affecting results are all beyond our control; Kelly-Moore Paint Company, inc., does not make nor deet if authorize any agent or representative to make any warranty of MERCHANTABILITY OR FITNESS for any purpose or any other warranty, quarantee or representation, expressed or implied, suncerning this material except that it conforms to Kelly-Moore's quality control standards. Any liability whatsoever of Kelly-Moore Paint Company, his, to the buyer of user of this product is limited to the purchaser's cost-of the product itself.

SEE MATERIAL SAFETY DATA SHEETS FOR FULL SAFETY PRECAUTIONS.

KM-669 IS FOR PROFESSIONAL USE ONLY KM-669 IS FOR INDUSTRIAL USE ONLY KEEP AWAY FROM CHIEDREN

MATERIAL SAFETY DATA SHEET

For Coatings, Resins & Related Materials

Section I

Manufactured For:

Kelly-Moore Paints

Prep Date:

07/28/06

Address:

987 Commercial Street San Carlos, CA 94070

Emergencies Involving Spills, Leaks,

Fires, Exposure, Or Accident Contact

Chemtrec: 1-800-424-9300

Product Class: Acrylic Lacquer Sealer Trade Name: KM-669 CLEAR

H.M.I.S. Codes: H F R P 2*3 D -

Information Phone: 1-888-677-2468

Section II - HAZARDOUS INGREDIENTS ===

Ingradient	C.A,S.#	Weight Percent	OSHA PEL	oşure Limits ACGIH TLV	Vapor Promise A	Temp.F
Acrylic-Resins	Mixture	30-40	Not	Established	Not Date	mined
*Xylene	1330-20-7	40-50	100 ppm	100 ppm	5.1	68
*Ethyl Berizene	100-41-4	15-20	100 ppm	100 ppm	7.1	68

*Indicates taxle chemical(s) subject to reporting requirements of Section 3.13 of Title (III and of 40 CFR-372.

Section III - PHYSICAL DATA

Boiling Range (Deg. F): 240°

Evaporation Rate: Slower than Ether

Percent Volatile By Volume: 70 ± 3%

Vapor Density: Heavier than at-

Weight Per Gallon (lbs.): 7.75 ± .25

Section IV - FIRE & EXPLOSION HAZARD DATA

Flash Point (Deg. F): 80°

Lower Explosive Limit 1.0

Extinguishing Media: Foam, alcohol foam, CO2, dry chemical, water spray

OSHA Flammability Classification: Flammable Liquid IC

Special Firefighting Procedures: Wear a NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. Use water to keep fire exposed containers cool. Water may be ineffective as an extinguishing agent.

Unusual Fire & Explosion Hazards: Vapors are heavier than air and may travel along the ground or be moved by ventilation to ignition sources at locations distant from material handling point. Pressure may build up in containers and create an explosion hazard.

KM-669 CLEAR THIS PRODUCT IS FLAMMABLE Effects Of Overexposure: Eyes: Irritation, burning, tearing and redness. Skin: Moderate irritation or defatting of skin upon prolonged or repeated contact. ingestion: Abdominal pain, nausea, vomiting and diarrhea. Inhalation: Excessive exposure to vapors can cause headache, dizziness, uncoordination, nausea and loss of consciousness. Emergency & First Aid Procedures: Eyes: Flush with water for 15 minutes. Skin: Remove contaminated clothing, wash skin with soap and water. Ingestion: Do not induce vorniting. Get medical attention immediately. Inhalation: Move to fresh air, aid breathing if necessary. In all cases, consult a physician for best treatment. Chemical listed as carchogen or potential carcinogen: NTP: No IARC: No OSHA. No Section VI - REACTIVITY DATA ===== Stability: Product Stable Conditions to Avoid: All sources of ignition Incompatibility (Materials to Avoid): Oxidizing agents, strong acids & bases Hazardoùs Decomposition Productes Carbon monoxide, carbon diexide, nitrogen oxides and organic compounds. Hazardous Polymerization: Will Not Occur = Section VII - SPILL OR LEAK PROCEDURES = Steps To Be Taken in Case Material is Released Or Spilled: Dike spill area, Absorb spill with inert absorbent material. Place in sealed metal containers for proper disposal. Waste Disposal Method: Dispose of in accordance with local, state and federal regulations. Section VIII - SPECIAL PROTECTION INFORMATION Respiratory Protection: Use a NIOSH/MSHA jointly approved respirator Ventilation: Use mechanical ventilation Protective Gloves: Neopiene or rubber Eve Protection: Chemical splash goggles Other Protective Equipment: Protective clothing, barrier cream, eye bath, safety shower Section IX - SPECIAL PRECAUTIONS -Precautions To Be Taken in Handling & Storing; Store in dry area. Keep away from open flames and high temperatures.

Other Precautions: Minimize contact. Avoid breathing vapors. Practice good industrial hygiene and safe working practices.

State and Local Regulations California Proposition 65

This product contains the following substances known to the State of California to cause cancer, birth defects or other reproductive hazards: Benzene, Toluene.



The Chemical Company

PRODUCT DATA

O 03 01 00 Maintenance of Concretes

ACRYL 60®

Water-based acrylic bonding and modifying admixture

Description

Acryl 60° is an acrylic-polymet emulsion mixed with Portland coment mortans, plasters, stucce, and concrete mixes to enhance thair physical properties, adhesion to substrates, and durability.

Papicaging

1 quart (0.9 L) bottles 1 gallion (3.8 L) tibilities 5 gallion (18.9 L) palls 30 gallion (113.5 L) drums 55 gallion (208 L) drums Cotor

Antha

Aftly white

Shelf Life

1 year when properly stored

Storage

Transport and store in unopened containers between 40 and 100° F (4 and 38° C). Protect from freezing.

Features

Acrylio polymer

- Excellent chemical and UV resistance
- Incorporate regrether stability of Portion Continuous description and the continuous description.
- · Stable

Benefits

-	المصيطة	STEED ACTION	of the local division in which the	ALCOHOL: NAME OF PERSONS	Sec. 147. 15	H-435-266-13		O'THE PERSON NAMED IN	THE RESERVE	No.
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	LINE	ини	er never best	5 6 6 6 7	2.7% (5.4)		100	COLUMN TO A STATE OF THE STATE	10 Oct	The contract of

Promotes long-tasting repairs Suitable for conficunate applica

Will not re-emulsity when exposed to water

Where to Use

APPLICATION

- Cement-based inbast to Improve their adhasibit, and durability
- As gauging injust for Thorog materpropring and report products, sects as Thorogon and Thorogon
- + Valkways
- Ramps and structural beams

LOCATION

- · Interior or exterior
- Above or below grade

SUBSTRATE.

Columns

How to Apply

Surface Preparation

- The methods required for preparation will vary depending on the end product to be applied and the site and substrate continous.
- 2. In all cases the surface must be clean and sound. Remove all loose and disintegrated material, Remove any and all traces of oil, grease, but, dust, efficience, biological, mold or mildew, and release or curing agents.
- Vacuum, sweep, or blow out the areas to be patched with clean, oil-free air.

CONCRETE/CMUMA/ASONRY SURFACES

Produmen the area to be patched or coated with patable weller to a seturated surface-dry (SSB) condition. Do not leave standing water on surface. Proper surface properation and statellings are extremely important.

OTHER SURFACES

For other surface preparation guidelines, refer to the specific There" product data guide for information.

Miding

- The normal ratio of Acryl 60° to clean potable water it 1 part Acryl 60° to 3 parts water (1 to 3).
 Where to creased physical and chemical resistance are required, tracease the Acryl 60° content in the mixing liquid to at 1 to 2 or 1 to 1 Acryl 60° to water ratio (see chart above).
- Always mechanically mix. Do not overmix or mix at a high speed.



Technical Data

Composition

Acryl 60° is an acrylic-polymer emulsion.

Typical Properties

Density, Ibs/gel (kg/L), Lab Method	8.65-(1.04)
Solids content, by volume, %, Lab Method	28
Naximem water dilution, Parts Acryl 60" to H-O, Lab Method	1:9

Test Data

The following properties are for sand/cement mortar samples:

	With Weter	With 1 to 1 Acryl 60° and Water	
Compressive strength; psi (NFa) 28 days	3,800 (26.2)	4,500 (31)	ASTM C 109
Topado strength, psi (MPa) 26 days	225 (1.5)	350 (2.4)	ASTM C 190
Flexural strength, ps/(1/174) 28 days	1,060 (6.9)	1,800 (12.4)	aştm.c 348
Freezo/Higgs discapility	(1 at 98 cycles	102 at 300 cycles	Melhod A

1900 (1880) 18-3 SARIS SARIS CONTRACTOR OF A SARIS CONTRACTOR OF A SARIS CONTRACTOR OF A SARIS SARIS CONTRACTOR OF A SARIS SARIS CONTRACTOR OF A SARIS SARIS CONTRACTOR OF A SARIS SARIS CONTRACTOR OF A SARIS CONTRACTOR O

Mixing Ratios

For script coats applied before patitions of overlays	Use sireight Acryl 60°
jo improvo dhe achesion properties of dolathig mentars and to reduce cracking its coment plaster	Use 1 part Acryl 60" to 6 professioner
For large existays or toming	Use 2 parts how 60% to 1 part water
For tion ling convent glaster no thicker than 1/4 - 3/8° (6 - 10 mm)	Use 1 part Acryl 60° to 3 parts water
NOTE. The above rather are for normal conditions. Viviene bending in more critical in A 1851 PATCH IS ACTIONS RECOIDMENTED.	crease the Acryl 60? contest of the studie Resid.
For detailed specific fishinglish for There products, see specific product 2004.	handez,

Application

SAND/CEMÊNT MORTAR

- Thoroughly mix all cement and sand first. The sand must be clean, free of clay, and dry.
- 2. Make up mising figuid from a 1 to 3 or 1 to 2 Acryl 60° water ratio depending upon requirements.
- 3. Slowly add the intering liquid to the respect/send inhours and mix with a slow-speed mixer for 1 2 minutes to avoid entrapping all After preparing, cleaning, and predampening the surface, brush apply a scrub cost (not diluted) of the Acryl BOT-modified cement/send. Scrub vigorously into the surface to displace any air pockets.
- 4. Place the mix into the sorub-coated repair area while the scrub coat is set well or tacky. Place the mix and avoid overtrowelling. The trowel should be cleaned frequently, kept well, and used with minimal pressure.
- Madrium time for placement should not exceed
 minutes. Fligher air and surface temperatures will decrease working and placement time.

Curing

- 1. When rapid drying is expected due to high temperatures, rapid air inovement, or wind, it is recommended that the surface be covered with wet burlap to ratain moisture.
- 2. For normal use, allow a 24-hour curing period.
- 3. For heavy wheeled traffic, allow a 4-day curing period.

Cleam Up

Clean all tools and equipment immediately with water, Cured material may be removed by mechanical means only.

For Best Performance

- Do not use Acryl 60st modified mixes when the
 ambient eir or stuface temperature is below
 40° F (4° C) or when the temperature is
 expected to fall below 40° F (4° C) within
 24 hours. High relative hundrity, excessive
 moisture, and low temperatures will retard
 the curing of Acryl 60° modified mixes.
- Do not use with attendrated cement mixes or with air-entraining attributions.
- De not overmix or aerale mixes.
- Use with proper ventilation.
- Do not use Acryl 60° as a surface-applied external biodding agant of as a primer.
- Do not expose sement-based ritings modified with Acryl 60° to water frameiston service for a minimum of 24 hours at 75° F (23° C).
- Not recommended for exposition to soft water or immersion where contact with water-treatment chanicals is present without a protective top coat.
- Caution should be used when a nighty solvent material is being used over a base system that contains Acryl 60°.
- Make certain the most current versions of product data sheet and MSDS are being used; can Customer Service (1-800-433-9517) to verify the most content version.
- Proper application is the responsibility of the user. Field visits by BASF personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

Health and Safety

ACRYL 60°

Caution

Acryl 60° contains no hazardous ingredients as defined by 29 CFR 1919.1200 VHMIS.

May cause skin, eya or respiratory initation. Ingestion may cause initation.

Precautions

Avoid contact with skin, eyes and clothing. Wash thoroughly after handling, Keep container closed when not in use. DO NOT take internally. Use only with adequate vanilation. Use impervious gloves, eye protection and if the TLV is exceeded or used in a poorly vanilated area, use NIOSHMSHA approved respiratory protection in accordance with applicable Federal, state and local regulations.

First Ald

In case of eye contact, flush thoroughly with water for at least 15 minutes. In case of skin contact, wash affected areas with seap and water. It initialion persists, SEEK MEDICAL ATTENTION. Remove and wash contaminated clothing. If inhabition causes physical discomfort, remove to fresh air. If discomfort persists or any breathing difficulty occurs or if swallowed, SEEK IMMEDIATE MEDICAL.

Proposition 65

This product contains material listed by the state of California as known as to cause cancer, birth defects, or either reproductive harm.

VOC Content

T g/L, or 0.01 the/gal less water and exempt solvents.

For medical energencies only, call Chemitres (1-800-424-9308).

BASF Construction Chemicals, LLC -**Building Systems**

589 Valley Park Drive Strakopee, MN, 55379

www.BuildingSystems.BASF.com Customer Service 800-433-9517 Technical Service 800-243-6739

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For professional use only. Not for sale to er use by the general public.

free as activity and



The Chemical Company

PRODUCT DATA



CONSTRUCTION GROUT

General construction, mineral-aggregate nonshrink grout

Description

Construction Grout is a noncatalyzed, multi-purpose construction grout containing mineral aggregate.

Yleid

One 50 In (22.7 kg) beg of Construction Grout inhed with 1.15 gations (4.35 L) of water (flowable mix) provides approximately 0.45 ft² (0.013 m²) of inhead grout.

Packaging

50 lb (22.7 kg) multi-wall paper trags

Concrete gray wheil cured Shelf Life

1 year when properly stored =

Store in unconted bags under clean, dry conditions.

Features

Benefits

No organic accelerators, including chlorides or other sails.

Bends in with surrounding concrete:

Will not conode reinforcing sleet

· Herdens tree of bleeding when properly placed

Provides high effective bearing area for proper support and load transfer

Where to Use

APPLICATION

- Morniel loads for columns and baseplains
- Badding grout for precast panels
- Répairing of cavillés résulting from ineffective concreté consolidation
- . Caulling concrete piper
- Backfilling, underplaning foundations, and pressure growing of slabs needing alignment
- · General construction applications
- Damp peck applications

LOCATION

Interfor or exterior

How to Apply

Application

For appregate extension guidelines refer to Appendix MB-10: Guide to Cementifices Grouping.

Mixing

By using the minimum amount of water to provide the desired workability, maximum strength will be achieved. Whenever possible, mix the great with a mechanical mixer. Either a mortar mixer of an electric drill with a paddle device is acceptable. Put the measured amount of water into life mixer, add grout, than mix till a uniform consistency is attained. On not use water in an amount or a temperature that will cause bleeding or segregation.

Corleg

Cure all exposed great shoulders by wel curing for 24 hours and by applying a recommended curing compound compilant with ASTM C 309 or preferably ASTM C 1315.

For Best Performance

- Contact your local representative for a pre-job conference to plan the installation.
- Construction Grout is designed for the 50 to 90° F (10 to 32° C) signification temperature range. Consult your BASF representative when applying outside this range. Use cold and helf weather concreting practices (ACI 305 and ACI 309 when grouting within 10° F (6° C) of these minimum and maximum temperature ranges.
- To ensure optimum performence of Construction Grout, place at a plastic or flowable consistency and at ambient temperatures of 50° F (16° C) and above.
- For best results, allow a minimum of 1" (25 mm) vertical clearance under baseplates when placing construction Grout.
- Do not use Construction Grout where it will come in contact with steel designed for stresses above 80,000 psi (552 MPa). Use Masterflow® \$16.
 Masterflow® 1205, or Masterflow® 1341 posttensioning cable grouts.



Technical Data

Composition

Construction Grout is a noncatalyzed hydraulic cement-based grout containing mineral aggregate,

Compliances

- CRD C 621 and ASTM C 1107, Grade C, at flowable or plastic consistency
- City of Los Angeles Research Report Number HR 23137

Typical Properties

(21" Q.

Mixed Grout Data* (Flowable Mi	
Approximate Water, gal (L)	1.15 (4.35)
loitiat set, hrs, at 70° F (21° C)	6
Firmel set, hrs. at 70° F (21° C)	В

Test Data

Flow, %, 5 draps	126 -	145	ASTM C230
Volume change, %; Novable consistency, after 28 days	0.08		A\$TM C 1090
Compressive strength, así (MPa)			ASTM C 942, according to ASTM C 1107
		Consistency	
	Flowable*	Plastic'	Siitt' (damp pacis)
1 day	1,500 (10)	_	·
3 days	5,000 (34.5)	6,000 (41.4) .	8,000 (55.2)
7 days	6,000 (41.3)	7,000 (48,3)	9,509 (65.5)
26 Cavis	7.000 (48.0)	8,500 (58,8)	10.000 (69.0).

- * T40% Jim on Now East, ASTM C 230, 5 drops in 3 seconds
- 1 100% they by lich thire, ASIM 0 230, 5 departy it is seconda
- * 40% litter on flow lithit, ASTM G 230, 5 thous in 3 seconds.
- Next i would are a manager ablated trades believablely contributes. Respectable variations can be expected.
- Do not add plasticizers, accelerators, returners, or other additives unless advised in writing by BASF Technical Services.
- The surface to be grouted should be clean, strong, and roughened to CSPS - 9 according to ICRI Guideline 03732 to permit proper band, For freshly placed concrete, consider using Liquid Surface Etchant (see Form No., 1020138).
- Do not place Construction Growth little greater than 6" (152 mm) unless the product to extended with apprepare to dissipate hydration freat.
- Where precision alignment and savere service, such as heavy loading, rolling, or impact resistance are required, use metallic reinforced, noncatalyzed Embero* 885 grout. If the emburit of impact resistance needed is not great enough to require metallic reinforcement, use natural-aggregate, Masterflow* 928.
- The water requirement may vary with mixing efficiency, temperature, and other variables.
- The concrete surfaces stiguid the saturated (pended) with clean water for 24 hours before grouting. Remove water Immediately before application.
- Make certain the most current versions of product data sheet and MSBS are being used; call Customer Service (1-860-433-9517) to verify the most current versions.

Proper application is the responsibility of the user.
 Pield visits by BASF personnel are for the propose of making technical recommendations only and not for supervising or providing quality common on the lotistie.

Health and Safety CONSTRUCTION GROUT

WARNING

Construction Crimit consider stiller, containing quartz, postland denient; finissione; calclim oxide; gygnant; stiller, amerphoss,

Risks

Product is alkaline on contact with water and may cause lightly to aldn or eyes. Ingestion or inhalation of dust may cause inflation. Contains small amount of fice respirable quartz which has been listed as a suspected human-carcinogen by NTP and IARC. Repeates or protonged overexposure to free respirable quartz may cause allicosts or other serious and delayed tung injury.

Preceutions

Avoid contact with skin, eyes and clothing. Prevent inhabition of clust. Wash illuroughly efter handling. Reep container closed when not in use. CO NOT take internetly. Use only with adequate ventilation. Use impervious gloves, eye protection and it the TLV is exceeded or used in a poorly ventilated area, use NIOSHAMSHA approved respiratory protection in accordance with applicable Federal, state and local regulations.

First Aid

in case of sye contact, flush thoroughly with water for at least 15 minutes. In case of skin contact, wash affected areas with soap and water. If initiation persists, SEEK IMEDICAL AFTENTION. Beaming and wash contaminated clothing. If inhelation causes physical discomfort, remove to tresh air. If discomfort persists or any breating difficulty ecoust or it swallowed, SEEK IMMEDIATE MEDICAE.

Waste Disposal Method

This product when discarded or cappead of is that issed as a hazardous waste in tearnal regulations. Dispose of in a landful in accordance with local regulations. For additional information on personal protective aquipment, first aid, and amergency procedures, refer to the product Material Safety Data. Sheet (MSDS) on the job site or contact the company at the address or phone numbers given below.

Proposition 65

This product contains material listed by the State of California as known to couse cancer, birth defects or other reproductive flarm.

VDC Content

0 g/L or 0 lbs/gai less water and exempt solvents.

For medical emergencies only, call ChemTrec (1-800-424-9300).

BASE Construction Chemicals, LLC -Building Systems

889 Valley Park Drive Shakopee, MN, 55379 www.BulldingSystems.BASE.com

Customer Service 800-433-9517 Technical Service 800-243-6739



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For professional use only. Not for sale to or use by the general public.

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FINAL ABATEMENT REPORTS

LEAD CONTAMINATION ABATEMENT REPORT

FINAL REPORT

DCS PROJECT NO. 12121

IDABEL ARMORY

LEAD REMEDIATION

INDEX

- 1. Summary of work
- 2. Sampling Analysis By DEQ
- 3. Hazardous Waste Manifest None
- 4. Building diagram
- 5. Photo documentation of work with narrative captions

Summary of work

Remediation of Idabel Armory:

Work was initiated in the Indoor Firing Range upon arrival. The ceiling, walls and floor were HEPA vacuumed, wet mopped and, when cleared, the floor was sealed and the room was secured to prevent re-contamination.

The floors in the remainder of the armory were then HEPA vacuumed and mopped with special attention to room 7 (Drill Hall) and rooms 23 (Weight Room) and 24.

DEQ was then notified, and post remediation clearance sampling/analysis were completed.

SUPPLY OFFICE ROOM 18 NATIONAL GUARD OFFICE ROOM 10 SUPPLY ROOM ROOM 9 10 m KATCHBN ROOM 8 VAULT ROOM 17 18.6 DEQ OFFICE 14 1,429,3: JANITOR ROOM 15 HALLWAY ROOM 2 LITTLE DIKIB STORAGE ROOM 16 DRILL HALL ' S. S. S. 会を動 ROOM 5 INDOOR FIRING RANGB ROOM 6 WEIGHT ROOM 23 19918 **新** 1000 ROOM 24 [PER PA SURFACE DUST SAMPLING IDABEL ARMORY

CLASSROOM 11

ROOM 12

21.33

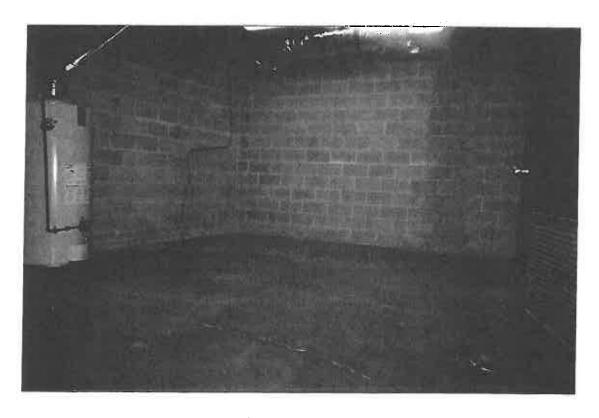
LITTLE DIXIE OFFICE 13

OFFICES
ROOM 3

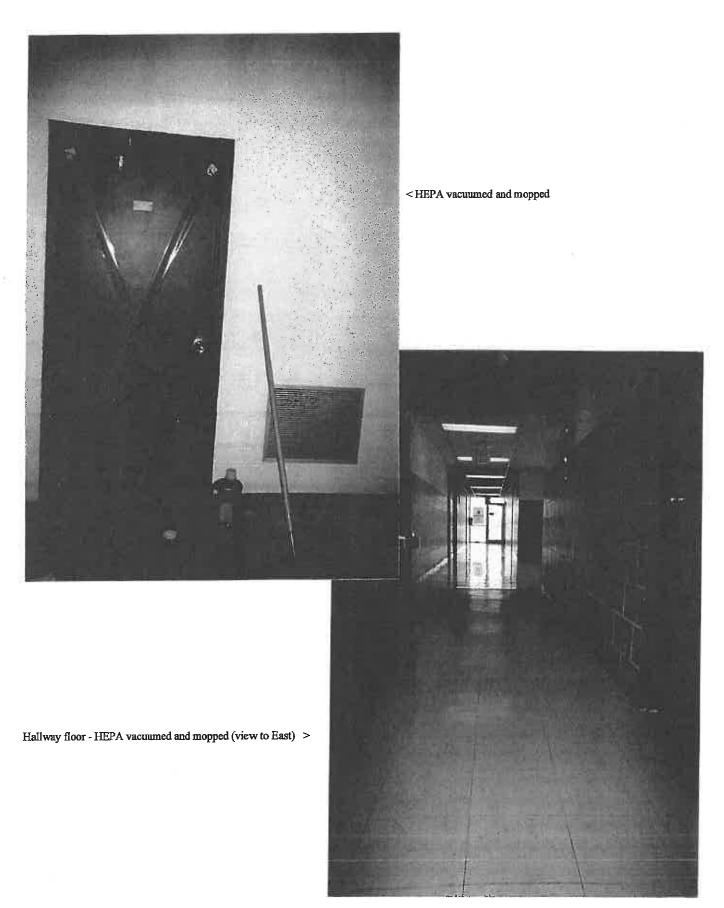
ROOM 4



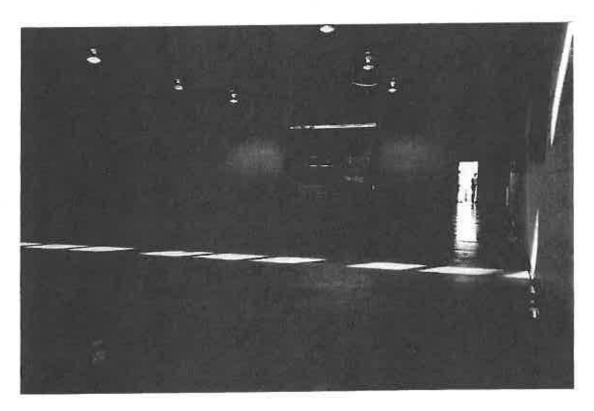
Floor - HEPA vacuumed and mopped, Room 9 (view to the South)



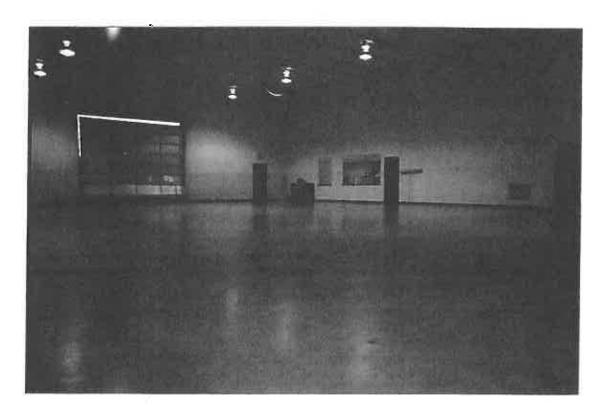
Storage room - floor HEPA vacuumed and mopped



Page 2 of 5



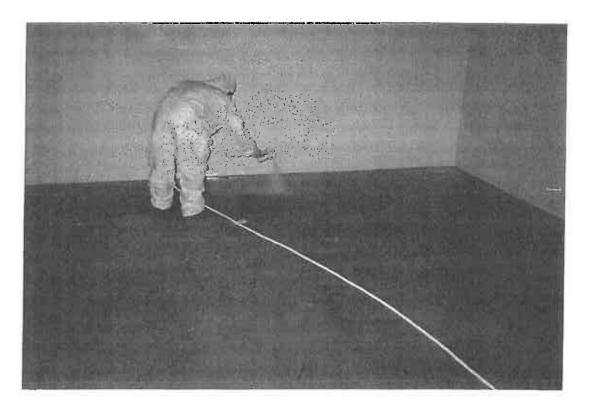
Floor - HEPA vacuumed and mopped, Drill Hall (view to the North Northwest)



Floor - HEPA vacuumed and mopped, Drill Hall (view to the North Northeast)

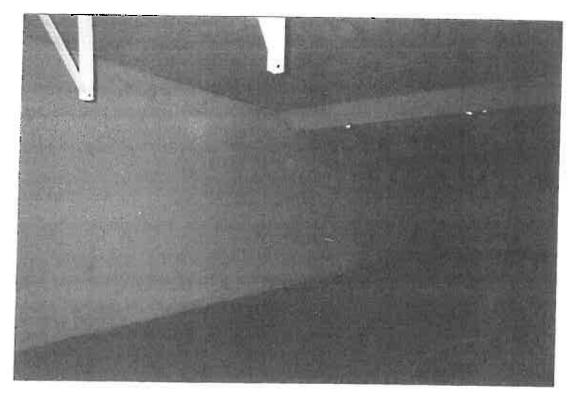


IFR - HEPA vacuumed, mopped and floor sealed (view to the North)

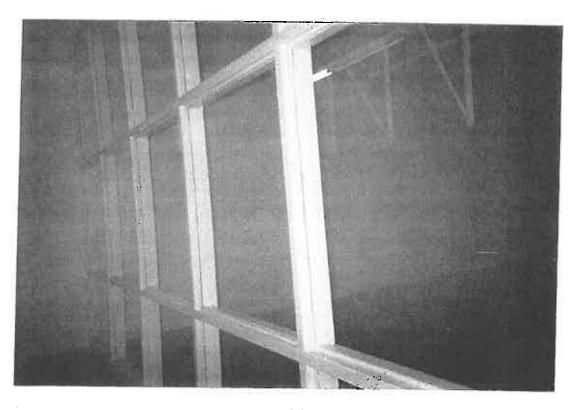


IFR - HEPA vacuumed, mopped and floor sealed (view to the North)

Page 4 of 5



IFR - HEPA vacuumed, mopped walls, ceilings and floors sealed (view to the North)



IFR - HEPA vacuumed, mopped walls, ceilings and floors sealed

CONFIRMATION SAMPLING

LEAD CONFIRMATION SAMPLING



Environmental Chemistry Analysis Report

QuanTEM Set ID:

201542

Date Received:

11/09/11

Received By:

Sherrie Leftwich

Date Sampled:

Time Sampled:

Analyst:

BM

Date of Report:

11/10/2011

AIHA ID: 101352

Client:

State of Oklahoma

DEQ Land Protection Attn: Dustin Davidson

707 N. Robinson

Oklahoma City, OK 73102

Acct. No.:

Project:

Idabel Armory

B486

Location:

Idabel Armory

Project No.: N/A

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
001	1	Wipe	Lead	<16.0	16	ug/sq. Ft.	-11/10/11 11:30	W EPA 7420 (1)
002	2	Wipe	Lead	<16.0	16	ug/sq. Ft.	11/10/11 11:30	W EPA 7420 (1)
003	Э	Wipe	Lead	<16.0	16	ug/sq. Ft.	11/10/11 11:30	W EPA 7420(1)
004	4	Wipe	Lead	<16.0	16	ug/sq. Ft.	11/10/11 11:30	W EPA 7420 (1)
005	5	Wipe	Lead	<16.0	16	ug/sq. Ft.	11/10/11 11:30	W EPA 7420 (1)
006	6	Wipe	Lead	<16.0	16	ug/sq. Ft.	11/10/11 11:30	W EPA 7420 (1)
007	7	Wipe	Lead	<16.0	16	ug/sq. Ft.	11/10/11 11:30	W EPA 7420 (1)
008	3	Wipe	Lead	<16.0	16	ug/sq. Ft.	11/10/11 11:30	W EPA 7420 (1)
009	9	Wipe	Lead	<16.0	16	ug/sq. Ft.	11/10/11 11:30	W EPA 7420 (1)
010	10	Wipe	Lead	31.6	16	ug/sq. Ft.	11/10/11 11:30	W EPA 7420 (1)
011	11	Wipe	Lead	<16.0	16	ug/sq. Ft.	11/10/11 11:30	W EPA 7420 (1)
012	12	Wipe	Lead	<16.0	16	ug/sq. Ft.	11/10/11 11:30	W EPA 7420 (1)
013	13	Wipe	Lead	20.5	16	ug/sq. Ft.	11/10/11 11:30	W EPA 7420 (1)
014	14	Wipe	Lead	<16.0	16	ug/sq. Ft.	11/10/11 11:30	W EPA 7420 (1)
015	15	Wipe	Lead	<16.0	16	ug/sq. Ft.	11/10/11 11:30	W EPA 7420 (1)
016	16	Wipe	Lead	24.6	16	ug/sq. Ft.	11/10/11 11:30	W EPA 7420 (1)
017	17	Wipe	Lead	28.0	16	ug/sq. Ft.	11/10/11 11:30	W EPA 7420 (1)

Note: Sample results have not been corrected for blank values.

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EPA Method 7420 (1) = EPA 600/R-93/200 Preperation Modified. EPA 7420 Analysis Modified



Environmental Chemistry Analysis Report

QuanTEM Set ID:

201542

Date Received:

11/09/11

Received By:

Sherrie Leftwich

Date Sampled:

Time Sampled:

Analyst:

BM

Date of Report:

11/10/2011

AIHA ID: 101352

Client:

State of Oklahoma

DEQ Land Protection

Attn: Dustin Davidson

707 N. Robinson

Oklahoma City, OK 73102

Acct, No.:

Location: Project No.: B486

Project:

Idabel Armory

N/A

Idabel Armory

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
018	18	Wipe	Lead	28.6	16	ug/sq. Ft.	11/10/11 11:30	W EPA 7420(1)
019	19	Wipe	Lead	144	16	ug/sq. Ft.	11/10/11 11:30	W EPA 7420(1)
020	20	Wipe	Lead	244	16	ug/sq. Ft.	11/10/11 11:30	W EPA 7420 (1)
021	21	Wipe	Lead	42.3	1 6	ug/sq. Ft.	11/10/11 11:30	W EPA 7420 (1)
022	22	Wipe	Lead	34.6	16	ug/sq. Ft.	11/10/11 11:30	W EPA 7420 (1)
023	23	Wipe	Lead	<16.0	16	ug/sq. Ft.	11/10/11 11:30	W EPA 7420 (1)
024	24 -	Wipe	Lead	46.0	16	ug/sq. Ft.	11/10/11 11:30	W EPA 7420 (1)
025	25	Wipe	Lead	104	16	ug/sq. Ft.	11/10/11 11:30	W EPA 7420 (1)
026	26	Wipe	Lead	595	16	ug/sq. Ft.	11/10/11 11:30	W EPA 7420 (1)
027	27	Wipe	Lead	<16.0	16	ug/sq. Ft.	11/10/11 11:30	W EPA 7420 (1)
028	28	Wipe	Lead	<16.0	16	ug/sq. Ft.	11/10/11 11:30	W EPA 7420 (1)
029	29	Wipe	Lead	<16.0	16	ug/sq. Ft.	11/10/11 11:30	W EPA 7420 (1)
030	30	Wipe	Lead	102	16	ug/sq. Ft.	11/10/11 11:30	W EPA 7420 (1)
031	31	Wipe	Lead	60.1	16	ug/sq. Ft.	11/10/11 11:30	W EPA 7420(1)
032	32	Wipe	Lead	324	16	ug/sq. Ft.	11/10/11 11:30	W EPA 7420 (1)
033	33	Wipe	Lead	299	16	ug/sq. Ft.	11/10/11 11:30	W EPA 7420 (1)
034	34	Wipe	Lead	312	16	ug/sq. Ft.	11/10/11 11:30	W EPA 7420 (1)

Note: Sample results have not been corrected for blank values.

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EPA Method 7420 (1) = EPA 600/R-93/200 Preperation Modified. EPA 7420 Analysis Modified



Environmental Chemistry Analysis Report

QuanTEM Set ID:

201542

Date Received:

11/09/11

Received By:

Sherrie Leftwich

Date Sampled:

Time Sampled:

Analyst:

ВМ

Date of Report:

11/10/2011

AIHA ID: 101352

Client:

State of Oklahoma

DEQ Land Protection

Attn: Dustin Davidson

707 N. Robinson

Oklahoma City, OK 73102

Acct. No.:

B486

N/A

Project:

Project No.:

Idabel Armory

Location:

Idabel Armory

QuanTEM Reporting Date/Time ID Client ID Matrix **Parameter** Results Limits Units Analyzed Method 344 16 ug/sq. Ft. 11/10/11 11:30 W EPA 7420 (1) 035 35 Wipe Lead Lead <16.0 16 ug/sq. Ft. 11/10/11 11:30 W EPA 7420 (1) 036 36 Wipe 037 37 Wipe Lead <16.0 16 ug/sq. Ft. 11/10/11 11:30 W EPA 7420(1) <16.0 W EPA 7420 (1) 038 38 16 ug/sq. Ft. 11/10/11 11:30 Wipe Lead W EPA 7420 (1) 039 <16.0 16 ug/sq. Ft. 11/10/11 11:30 39 Wipe Lead 040 40 Wipe Lead <16.0 16 ug/sq. Ft. 11/10/11 11:30 W EPA 7420(1) 116 ug/sq. Ft. 11/10/11 11:30 W EPA 7420 (1) 041 41 Wipe Lead 16

Authorized Signature:

(LZ)

Benton Miller, Analyst

Note: Sample results have not been corrected for blank values.

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Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

EPA Method 7420 (1) = EPA 600/R-93/200 Preperation Modified. EPA 7420 Analysis Modified

Supplemental Report **QAQC** Results

QA ID: #9351

Date:

11/10/2011

Matrix: Wipe Lab Number:

201542

Benton Miller

Approved By: Date Approved: 11/10/2011

Notes:

Test:

Blank Data:

Type of Blank	Blank Value
FCB	o]
ICB	0
Matrix Blank	0

Lead

Standards Data:

Standard		Low Li	mit	Obtained	-	High Limit
					1	
CCV		1 1 1 1 1	4.5		5.4	5.5
FCV			4.5		4.9	5.5
ICV	1. (1.)		0.8		1.1	1.2
RLVS			0.256	0.2	287	0.384

Duplicate Data:

Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
MS-W1	0.000	5.470	5.201	95.1	5.130	93.8	1.4
MS-W2	0.000	5.525	5.574	100.9	5.483	99.2	1.6
MS-W3	0.000	5.503	5.265	95.7	5,249	95.4	0.3

Authorized Signature:



2033 Meritage Park Drive, Oklahoma Cliy, OK 73120-7502 (800) 822-1660 (405) 755-7272 Fax (405) 755-2056 www.quantem.com

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THIS BOX IN LAB USE ONLY Lab No.

Acct.#

Project Location:

Company Name:

Project Neme: Project Number:

10	LEGAL DOCUMENT Please Print Legibly	# K25	TURNAROUND TIME	Same Day	X24 Hour	3-Day	- 5-day		The second section of the second seco	Name:	Vustin Havidson		Prone:	Carlo Carlo	FAX.	OvenTEM WebSite	DEMORE dustinaday, Ison by	deg, Oh 2	20%
	Sample Marrix Codes	A-50#	B - Paint Chips	C - Surface / Dual Wipsa	D - But Miscellangous	E - Al Cassello	F - Officer (SPECIFY)										Sempled By	Vusting	Davi deep
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RAL	Sample Description	1642		4			=	3							=		1/4/11 9:51 W ALENS 11/4/1	Describes Vo. According	
•	Sample Number		7	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	5			S	6	0)	//	7/	/3	14	} /		The Paris	An expense	

Saturday FedEx Shipping - CALL TO SCHEDULE Use inis address for Saturday FedEx only: 4220 N. Sama Fe Ave., Oxiahoma Cây, OK 73105-6517 Mark Package HOLD FOR SATURDAY PICKUP'

Revision: May 2008



2033 Herliags Park Drive, Oklahorna Cily, OK 73120-7502 (800) 822-1660 (405) 755-7272 Fex (405) 755-2058

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This Box for Late Use Only Lab No.

www.quantem.com

Project Number:

Project Name:

Acct.#:

Company Name:

Project Location:

Derma dusting day 150, 20 Please Print Legibly LEGAL DOCUMENT CONTACT INFORMATION Report Results VIA (CHOOSE GIVE): TURNAROUND TIME QuanTEM Wabbite Same Day 24 Hour 3-Day 5-day C - Surface / Dust Wipes D - Bulk Miscollansous Sample Matrix F - Other (SPECIFY) Parilson Codse E - Air Cassette B - Paint Chips Semolad By: A. Soff Wed 11941 10:00 WIL uio / Bui הם (כת אני Units Requested 'n tis / En 1) Desi бы / беза % IV Vide Analysia 74 Folume of Area Sample Description Sample Number

Saturday FedEx Shipping - CALL TO SCREDULE. Use this address for Saturday FedEx only: 4220 N. Santa Fe Ave., Oklahoma City, OK 73105-8517 Mark Package 'HOLD FOR SATURDAY PICKUP'

Revision: May 2006



2033 Herliage Perk Drive, Oklahorna City, OK 73120-7502 (800) 822-4660 (405) 755-7272 Fax: (405) 755-2058 www.quantem.com

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This Sok for Lab Use On Lab No.

Project Name:

Acct.#

Project Location:

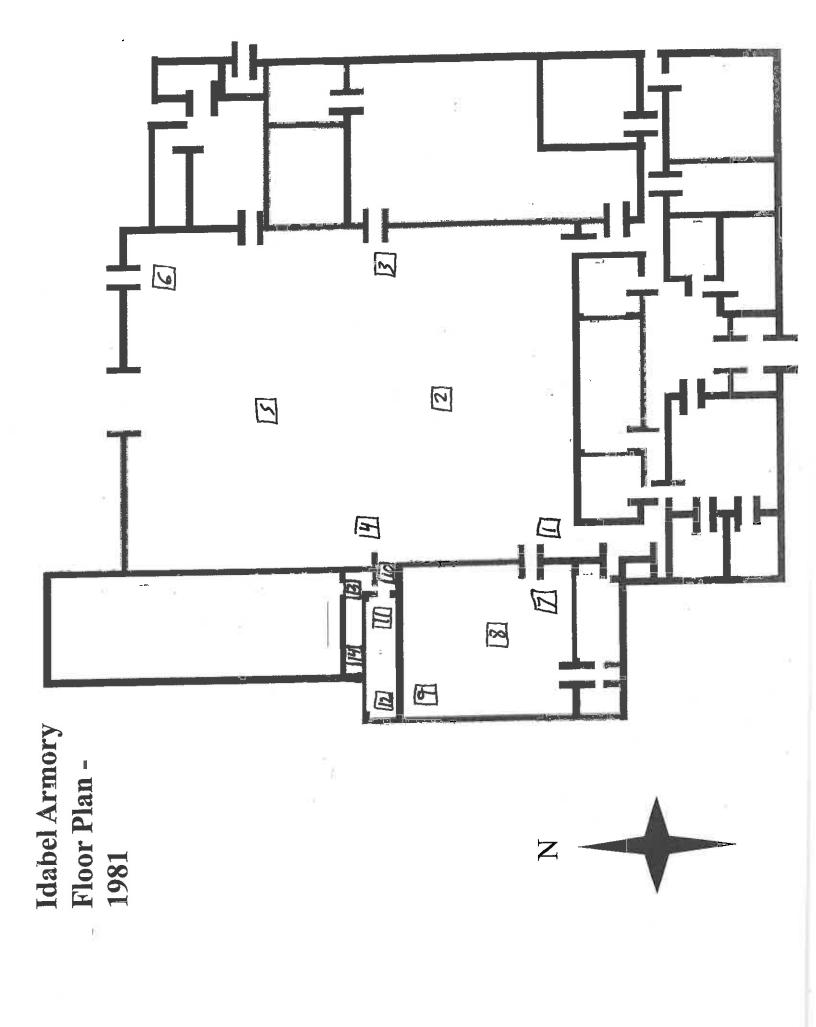
Company Name:

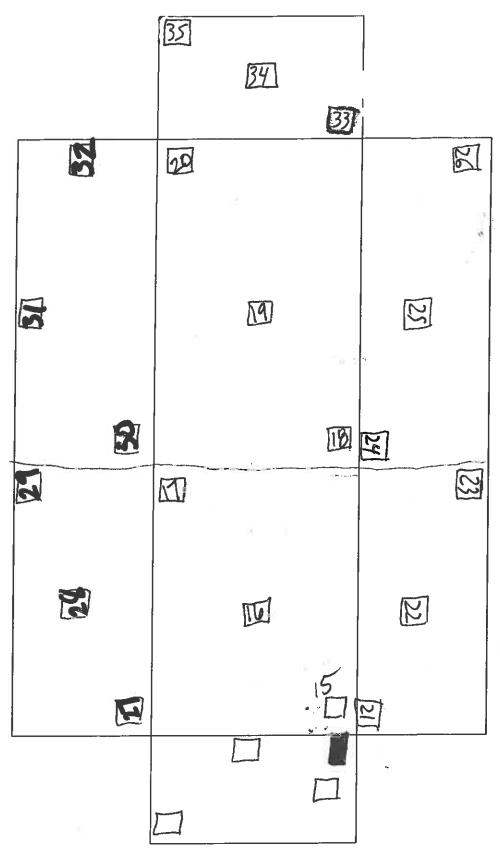
Project Number:

	LEGAL DOCUMENT Please Print Legibly	1 1 (2)	TURNAROUND TIME	Same Day	724 Hour	3-Day	- o-day			CONTACT INFORMATION	Name: D, L. 17	post in Mayidson	Prene	Report Results Via (CHOOSE ONE):	, WAX.	OughTEB-VyabSite	KENSOK Just	Los Di nadaids	10K,401	
	Sample Metrix Codes	A-Soll	B - Palist Chips	C - Surface / Dust Wipes	D - Buk Miscellandous	E - At Castelle	F - Other (SPECIEY)											Sempled By:	" During	
CHISTON LANGUAGE CO.	mg/cm/M wg/sc/M wg/sc/M wg/sc/M wg/sc/M wg/sc/M	×																11 HIM 10:00 11/6,	///	
No. of Contract of	Test algeral																	Thries II		
i de	Sample Description of A	<i>131</i>												The second secon			A Described W. Rectified to	1/2/1/9:58 1/1/9/		
	Sample Number	31	3.2	33	34	35	76.	37	38	39	0 %	/ /			A second		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Make Pak		

Saturday FedEx Shipping - CALL TO SCHEDULE. Use Ihis address for Saturday FedEx only: 4220 N. Sante Fe Ave., Okiehoma City, OK 73105-8517. Mark Packege "HOLD FOR SATURDAY PICKUP"

Resizion: Hay 2000





IFR Ceiling

34

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15



Environmental Chemistry Analysis Report

QuanTEM Set ID:

202188

Date Received:

12/01/11

Received By:

Sherrie Leftwich

Date Sampled:

Time Sampled:

Analyst:

RS

Date of Report:

12/2/2011

AIHA ID: 101352

Client:

State of Oklahoma

Dept. of Environmental Quality

707 N. Robinson

Oklahoma City, OK 73102

Acct. No.:

A795

Project:

Idabel Armory

Location:

Idabel Armory

Project No.: N/A

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
001	1	Wipe	Lead	318	16	ug/sq. Ft.	12/02/11 11:30	W EPA 7420 (1)
002	2	Wipe	Lead	188	16	ug/sq. Ft.	12/02/11 11:30	W EPA 7420 (1)
003	3	Wipe	Lead	17.8	16	ug/sq. Ft.	12/02/11 11:30	W EPA 7420 (1)
004	4	Wipe	Lead	85.3	16	ug/sq. Ft.	12/02/11 11:30	W EPA 7420 (1)
005	5	Wipe	Lead	<16.0	16	ug/sq. Ft.	12/02/11 11:30	W EPA 7420 (1)
006	6	Wipe	Lead	128	16	ug/sq. Ft.	12/02/11 11:30	W EPA 7420 (1)
007	7	Wipe	Lead	47.4	16	ug/sq. Ft.	12/02/11 11:30	W EPA 7420 (1)
008	8	Wipe	Lead	51.1	16	ug/sq. Ft.	12/02/11 11:30	W EPA 7420 (1)
009	9	Wipe	Lead	54.5	16	ug/sq. Ft.	12/02/11 11:30	W EPA 7420 (1)

Authorized Signature:_

Rebecca Sparks, Analyst

Note: Sample results have not been corrected for blank values.

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EPA Method 7420 (1) = EPA 600/R-93/200 Preperation Modified. EPA 7420 Analysis Modified

Supplemental Report QAQC Results

QA ID: Test: 9420

Lead

Date:

Matrix:

12/2/2011

Wipe

Lab Number:

202188

Approved By:

Rebecca Sparks

Date Approved: 12/2/2011

Notes:

Blank Data:

Type of Blank	Blank Value
FCB	0
ICB	0
Matrix Blank	0

Standards Data:

Standard	Low Limit	Obtained	High Limit		
ccv	4.5	5.2	5.5		
FCV	4.5	5.2	5.5		
ICV	0.8	1.1	1.2		
RLVS	0.256	0.352	0.384		

Duplicate Data:

Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
MS-W1	0.000	5.503	5.644	102.6	5.773	104.9	2.3

Authorized Signature:_

Rebecca Sparks, Analyst



2033 Heritage Perk Drive, Oktehoma Cilv, OK 73120-7502 (800) 822-1650 (405) 755-7272 Fev. (405) 755-2058 www.quantem.com

This Birk luck at Jan Cong Lab No.

Acc. 来 Company Nanje:

Froject Name:

Project Number:

Units Requested

Anglysia

LEGAL DOCUMENT Please Print Legibly

Sample Matrix

Codes

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Harn winer

Sample Description.

Sample Number

Project Location:

B - Peint Chipe

A.Soll

TURNAROUND TIME	Seme Day	24 Hour	3-Day	5-day
B - Paint Chipe	C - Curface / Dust Wipes	D - Bult Miscellaneous	F - Air Cassefte	Other (SPECIFY)

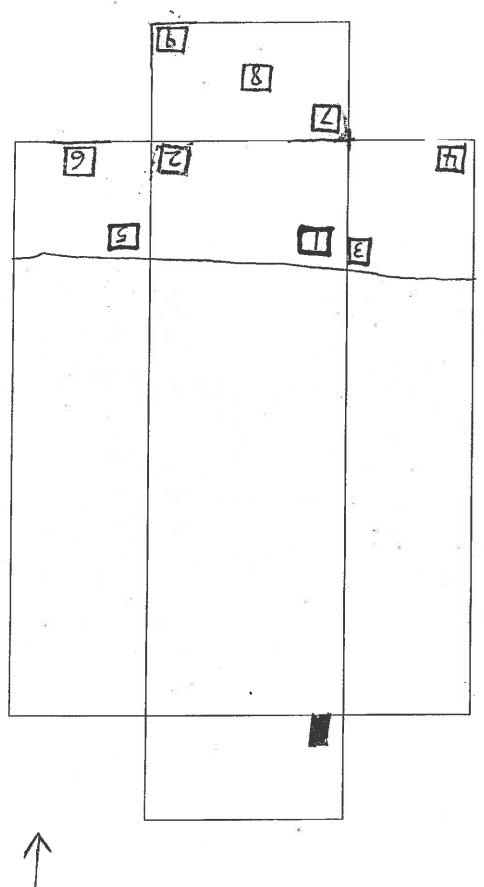
CONTACT INFORMATION	-3	David Son	Report Results VIA (CHOOSE ONE).	rax	Gusn't Fig WebSite
3 1	(Name;	Pittunie;	Report R	FAX	Cusan

Kemal Lustin dai den @

Retin

Saturday, FedEz Shipping - CALL TO SCHEDULE Use this address for Saturday-FedEx only, 4220 N. Sania Fe Ave., Oklahoma City, Or. 73105-8517. Matt. Poctage HOLD FOR SATURDAY PICKUP

Revision: Way 2004





State of Oklahoma DEQ Land Protection Attn: Dustin Davidson 707 N. Robinson Oklahoma City, OK 73102

Re: QuanTEM ID 202373

QuanTEM appreciates the opportunity to provide analytical testing services to you. Attached are your reports and other supporting documentation for the above referenced project.

Thank you for making QuanTEM your lab of choice. If you have any question concerning this or other reports please feel free to contact us at 800-822-1650.

We continually work to improve our service. Help us out by providing feed back on your experience at www.QuanTEM.com. Click on Service Survey and fill out the form. We look forward to hearing from you.

Respectfully,
QuanTEM Laboratories, LLC.







Environmental Chemistry Analysis Report

QuanTEM Set ID:

202373

Date Received:

12/08/11

Received By:

Sherrie Leftwich

Date Sampled:

Time Sampled:

Analyst:

BM

Date of Report:

12/8/2011

AIHA ID: 101352

Client:

State of Oklahoma

DEQ Land Protection Attn: Dustin Davidson

707 N. Robinson

Oklahoma City, OK 73102

Acct. No.:

B486

Project:

Idabel Armory

Location:

Idabel

Project No.: N/A

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
001	1-1-A	Wipe	Lead	22.1	16	ug/sq. Ft.	12/08/11 13:30	W EPA 7420 (1)

Authorized Signature:

Benton Miller, Analyst

Note: Sample results have not been corrected for blank values.

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EPA Method 7420 (1) = EPA 600/R-93/200 Preperation Modified. EPA 7420 Analysis Modified

Supplemental Report **QAQC** Results

QA ID: Test:

9440

Lead

Date:

12/8/2011

Matrix: Wipe Lab Number: Approved By: 202373

Benton Miller

Date Approved: 12/8/2011

Notes:

Blank Data:

Type of Blank	Blank Value						
FCB	0						
ICB	0						
Matrix Blank	0						

Standards Data:

Standard	Low Limit	Obtained	High Limit
CCV	4.5	4.9	5.5
FCV	4.5	5.3	-5.5
ICV	0.8	1	1.2
RLVS	0.256	0.344	0.384

Duplicate Data:

Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
MS-W1	0.000	5.503	5,544	100.8	5.564	101.1	0.4

Authorized Signature:

Benton Miller, Analyst



LEAD CHAIN OF CUSTODY

2033 Heritage Park Drive, Oklahoma City, OK 73120-7502 (800) 822-1650 * (405) 755-7272 * Fax: (405) 755-2058

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Page	

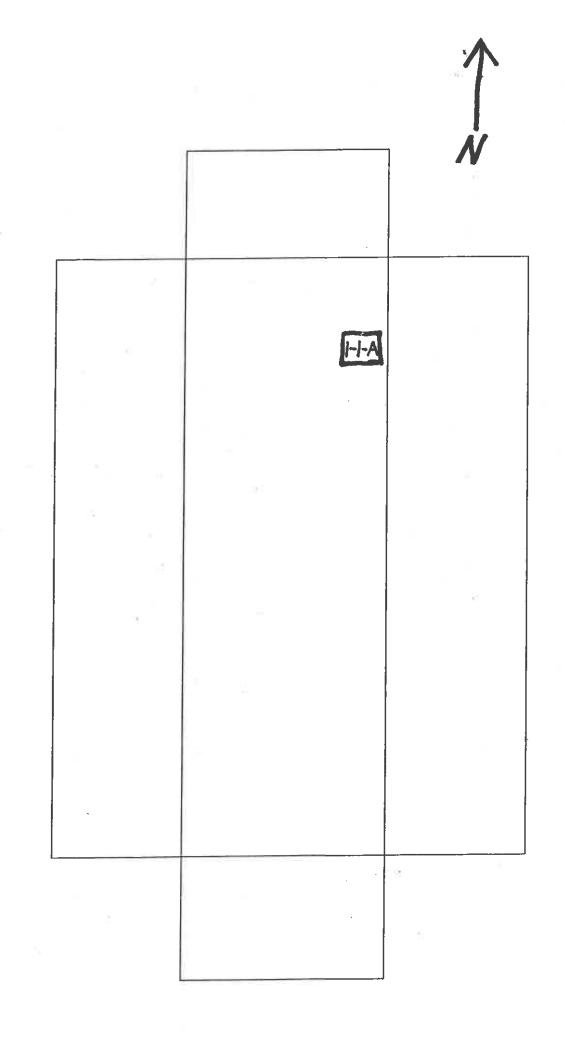
of. Lab No.

LEGAL DOCUMENT - PLEASE PRINT LEGIBLY

Report Results (Crone bo QuanTEM Website Other	
Company: D.C.C. Contact thrormation	

				22					_						12							
	· 1000 1000 1000 1000 1000 1000 1000 10	Sample Matrix	Codes	Soil	Paint Chips	Surface / Dust Wipes	_	Alr Cassette				2	2 83	9 %		20 IV	TAIRNARDING TIME	J. William St. Co.	Same Day	24 - Hour	3 - Day	5 - Day
1				٧	Ω	<u></u>		ш		_												
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SATURDAY SAMPLE DELIVERY - CALL TO SCHEDULE • Use this address for Saturday Delivery only: 4220 N. Santa Fe Ave., Oklahoma City, OK 73105-8517 • Mark Package "Hold for Saturday Pickup"







Environmental Chemistry Analysis Report

QuanTEM Set ID:

202535

Date Received:

12/13/11

Received By:

Sherrie Leftwich

Date Sampled:

Time Sampled:

Analyst:

RS

Date of Report:

12/13/2011

AIHA ID: 101352

Client:

State of Oklahoma

DEQ Land Protection

Attn: Dustin Davidson 707 N. Robinson

Oklahoma City, OK 73102

Acct. No.: B486

Project:

Idabel Armory

Location:

Idabel Oklahoma

Project No.:

N/A

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
001	1	Wipe	Lead	<16.0	16	ug/sq. Ft.	12/13/11 14:30	W EPA 7420 (1)
002	2	Wipe	Lead	<16.0	16	ug/sq. Ft.	12/13/11 14:30	W EPA 7420 (1)
003	3	Wipe	Lead	<16.0	16	ug/sq. Ft.	12/13/11 14:30	W EPA 7420 (1)
004	4	Wipe	Lead	<16.0	16	ug/sq. Ft.	12/13/11 14:30	W EPA 7420 (1)
005	5	Wipe	Lead	<16.0	16	ug/sq. Ft.	12/13/11 14:30	W EPA 7420 (1)
006	6	Wipe	Lead	<16.0	16	ug/sq. Ft.	12/13/11 14:30	W EPA 7420 (1)
007	7	Wipe	Lead	<16.0	16	ug/sq. Ft.	12/13/11 14:30	W EPA 7420 (1)
008	8	Wipe	Lead	<16.0	16	ug/sq. Ft.	12/13/11 14:30	W EPA 7420 (1)
009	9	Wipe	Lead	<16.0	16	ug/sq. Ft.	12/13/11 14:30	W EPA 7420 (1)
010	10	Wipe	Lead	<16.0	16	ug/sq. Ft.	12/13/11 14:30	W EPA 7420 (1)

Authorized Signature:

Rebecca Sparks, Analyst

Note: Sample results have not been corrected for blank values.

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently identical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of the client and are not to be reproduced without specific written permission.

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

EPA Method 7420 (1) = EPA 600/R-93/200 Preperation Modified. EPA 7420 Analysis Modified

Supplemental Report QAQC Results

QA ID: Test: 9455

Lead

Date:

12/13/2011

Matrix: Wipe

Lab Number:

202535

Approved By:

Rebecca Sparks

Date Approved: 12/13/2011

Notes:

Blank Data:

Type of Blank	Blank Value		
FCB	0		
ICB	0		
Matrix Blank	0		

Standards Data:

Standard	Low Limit	Obtained	High Limit	
CCV	4.5	5.1	5.5	
FCV	4.5	4.8	5.5	
ICV	0.8	1.2	1.2	

Duplicate Data:

Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
MS-W2	0.000	5.427	5.196	95.7	5.085	93.7	2.2

Authorized Signature:

Rebecca Sparks, Analyst



LEAD CHAIN OF CUSTODY

2033 Heritage Park Drive, Oklahoma City, OK 73120-7502 (800) 822-1650 (405) 755-7272 Fax: (405) 755-2058

LEGAL DOCUMENT - PLEASE PRINT LEGIBLY

			ACCEDIA Reject
Contact Information		Project Information	
	1		Report Results (Mone box)
Company:	Phone: 405-102-5115	Phone: 405-102-5/15 Project Name: 7 66 / 4/	QuanTEM Website
Contact Dustin Davidson	Cell Phone: 405 - 317-4292	Cell Phone: 405 - 317-4292 Project Location: 7/1/1/	Other
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ACCOUNT #;	E-mail: Austin. Maridson	Project ID:	
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SATURDAY SAMPLE DELIVERY - CALL TO SCHEDULE * Use this address for Saturday Delivery only: 4229 N. Santa Fe Ave., Chlahoma City, OK 73105-3517 * Mark Package "Hold for Saturday Pickup"



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